

Alok Rajasukumaran

CTO & AI Architect, VAAS Intelligent Technology Services

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● Open to CTO, Senior Architect & Engineering Management roles

SUMMARY

Technology executive and AI architect with 10+ years across engineering leadership, software architecture, and applied AI. CTO at VAAS Intelligent Technology Services, where I lead 30-50 engineers at a time and have delivered an eight-figure portfolio of 100+ products for clients across India, the Gulf, Australia, Europe, and the US. Co-founder and CTO at Cliniqally Healthtech, built to a 30-person engineering team. Hired 200+ engineers over the last decade and set technology strategy, architecture and roadmaps for AI/LLM, conversational AI, full-stack web and mobile platforms. TEDx speaker with 150+ stages and 2,000+ engineers and students trained.

EXPERIENCE

CTO & AI Architect, VAAS Intelligent Technology Services

May 2022 - Present | Kochi, India

Own technology strategy and architecture across AI, full-stack SaaS and mobile, leading the teams that have delivered 100+ client projects in healthcare, retail, banking and enterprise.

Also serving: Dubai, UAE; Riyadh, Saudi Arabia; Muscat, Oman; Kuala Lumpur, Malaysia.

- Lead 30-50 engineers at any one time, and 100+ across 100+ client projects to date, delivering an eight-figure portfolio on time and to spec.
- Own enterprise architecture across AI, cloud and full-stack: the standard all 100+ delivered projects are built against.
- Hold the flagship client platform at 99.95%+ uptime, and set the SLA and review standards the other teams deliver against.
- Introduced CI/CD and shared engineering standards that cut release cadence from every 4 to 8 weeks down to weekly across the portfolio.
- Hired 200+ engineers over four years to staff 100+ client projects across India and the Gulf, screening around 5 candidates a day at peak.
- Partner with clients through demos and solutioning, translating what they need into an architecture they can afford to run.
- Retained most of the founding engineering team through 4 years of scaling to 100+ client projects.

Co-Founder & CTO, Cliniqally Healthtech

May 2022 - Present | Bangalore, Karnataka, India

Co-founded an AI healthtech startup and set its technology vision, architecture and roadmap, leading the engineering team and vendor partners across India and the UAE.

Also serving: Dubai, United Arab Emirates.

- Designed the architecture behind Cliniqally: doctor and patient apps on both web and mobile, running in 10+ clinics, covering scheduling, records, prescriptions, billing and clinician-patient messaging.
- Built all 4 surfaces on one NestJS backend over PostgreSQL and MongoDB, with Angular on the web and Flutter on mobile.
- Set the release bar the Cliniqally apps shipped against: every change reviewed before merge, 80%+ test coverage, shipping weekly.
- Took crash-free sessions from 10% to 90% and cut the defect rate to 5%.
- Built and managed an engineering team of up to 30, plus vendor partners across India and the UAE.
- Advised the investors on where the technology budget went and what it would cost to run the platform past launch, work that added about 18 months of runway.

Information Technology Advisor, AI Adrak Trading & Contracting Co LLC

Jul 2024 - Mar 2025 | Muscat, Sultanate of Oman

Led digital transformation across a four-country operation, running a 25+ person IT function split between software and hardware in Oman, Saudi Arabia, the UAE and India.

- Led a 25+ person IT operation across Oman, Saudi Arabia, the UAE and India: 8 on software including 2 contractors, 7 on hardware, and the support staff behind both.
- Cut procurement spend by at least \$240K a month, about \$2.9M a year, by running competitive multi-vendor bidding for hardware and software across all four regions.
- Ran the Muscat development team hands-on, writing code alongside them and reviewing every change before it merged, and travelled to each of the four sites to scope what it needed.
- Owned the hardware and software portfolio outright, from servers and endpoints through to licensing, plus every vendor relationship behind it.
- Moved every process off paper and onto systems built in-house, across all 4 offices, with a reporting hierarchy that stuck.
- Replaced walk-ups and phone chasing with digital request flows, which cut the support team's load enough to move them onto work-sharing and a new testing function.
- Put AI note-taking into meetings, WRENCH SmartProject across every project, and Zoho pipelines behind task and ticket monitoring.

Consultant II - Data & AI, Neudesic

Mar 2020 - May 2022 | Kochi, Kerala, India

Built enterprise systems for global clients: IoT platforms for an Australian telecom, ERP and internal apps for an auction group and a US financial-services firm, and internal AI/ML models.

- Delivered IoT platforms and R&D initiatives for Telstra, Australia's largest telecom.
- Extended the ERP and internal tooling behind Pickles, Australia's largest auctioneer.
- Rebuilt internal systems and ERP workflows for First American, a US title-insurance firm.
- Built and tuned internal AI/ML models, written test-first and shipped as microservices on Azure.
- Maintained SonarCloud and ESLint standards with 80%+ automated test coverage.

Senior Software Engineer, Orion Business Innovation

Jan 2019 - Mar 2020 | Kochi, Kerala, India

Designed enterprise chatbots and internal applications for KPMG, wired into their core systems, built in Agile with Node.js, Angular, .NET and Azure.

- Built the chatbot layered over KPMG's audit process, and maintained the flagship audit application behind it, rolled out across the KPMG group.
- Kept that application and the internal tools around it wired into the firm's core systems.
- Collaborated directly with KPMG stakeholders to align delivery with business goals.
- Ran the IoT lab, Orion's own space for prototyping sensor and hardware ideas before they reached client work.
- Delivered in Agile alongside cross-functional teams on the client side.

Staff Engineer - AI / Chatbots, bitWise Academy

Sep 2017 - Jan 2019 | Coimbatore, Tamil Nadu, India

Led a team building AI-powered chatbot platforms with ML and NLP, owning code quality, version management, and technical hiring.

Also serving: San Francisco, California, USA.

- Architected AI chatbot platforms for 5 clients plus 3 internal production bots, reaching thousands of learners, spanning AIML, NLP, ontology, ML and deep learning.
- Managed 80+ Azure servers and a team of IIT interns; owned code quality and version control.
- Ran technical recruitment end to end, from sourcing and screening to onboarding, contributing to 50+ engineering hires across my career.
- Built the company's internal tooling, including the messaging platform the whole company ran on.

Lead Developer - Innovation Team, Astro-Vision FutureTech

Feb 2015 - Aug 2017 | Kochi, Kerala, India

Promoted twice in 31 months to Lead Developer on the Innovation Team, delivering chatbots, voice skills, cross-platform apps and e-commerce serving 150,000+ daily visitors.

- Directed several delivery teams from the Innovation Team, held the review gate on what merged, and picked which emerging technologies Astro-Vision adopted.
- Architected 3 client chatbots plus Alexa and Google voice skills and cross-platform apps.
- Operated high-traffic e-commerce serving 150,000+ daily visitors across 70+ services, with A/B testing and SEO.
- Shipped iOS and Android apps exceeding 100,000 installs.

PROJECTS (34)

AI, SaaS & Product - VAAS era • 2020 - Present

Devakived HR Platform (2024) · [Architect & Lead](#) - An HR platform that follows an employee the whole way, from hiring to retirement. *NestJS, Angular 17, TypeScript, Jenkins*

EDR POS (2023) · [Architect & Lead](#) - A POS for restaurants and cloud kitchens running across 55+ outlets, underpinning about \$48M in annual client revenue, with web and native apps, OpenAI, face recognition and FAQ bots. *NestJS, Angular, Flutter, OpenAI*

Omni (2023) · [Frontend](#) - A process and document-automation tool for a client in Europe. *React, Vite, TypeScript*

Cliniqally – Doctor App (2022) · [Architect & Lead](#) – An app for clinicians to handle scheduling, patient records, prescriptions, billing and messaging. *NestJS, Flutter, Angular, OpenAI*

Cliniqally – Patient App (2022) · [Backend](#) – The patient side of it: booking appointments, medical records, prescriptions and secure messaging with providers. *NestJS, Flutter, Angular, OpenAI*

Eat & Drink (2021) · [Principal, Full-Stack](#) – A food-delivery platform tying together diners, restaurants and delivery partners. *Node.js, React Native, Flutter, PostgreSQL*

Thazhayil Loan App (2022) · [Angular Lead](#) – A loan-origination system for a bank, with nine separate secured login roles. *Angular, TypeScript, Java*

OH Yes – Home Solutions & Partner (2021) · [Architect & Lead](#) – An on-demand home-services marketplace, with a partner app that matches the jobs. *Angular, Node.js, Laravel, React*

ConnectingVows (2022) · [Architect](#) – A matrimonial matchmaking platform, built around UX and keeping people engaged. *Angular, Node.js, MongoDB*

PatchPets (2020) · [Developer](#) – A social network made entirely for dogs, with a feed, messaging and profiles. *Angular, React Native, Node.js, PostgreSQL*

Online grocery – Saudi (2020) · [Architect & Lead](#) – A full online grocery store for a retail client in the Middle East. *Angular, Laravel, TypeScript*

Energy 24/7 (2021) · [Angular Lead](#) – A products-and-solutions platform for an energy-storage lab. *Angular, TypeScript*

Appum (2020) · [Architect, Angular](#) – A business-management app that lets small businesses run things from anywhere. *Angular, Laravel, MySQL*

Inventory Portal (2021) · [Architect, Angular](#) – Inventory management, with AI reading and sorting the documents. *Angular, Laravel, AI OCR*

Budmore (2023) · [Architect & Lead](#) – An IoT setup for fish ponds: the devices hold temperature and pH steady, with an admin panel for farms, devices, users and permissions. *Angular, TypeScript, Bootstrap*

Energensol (2021) · [Architect](#) – An asset-management and supply-chain platform for an operations firm with twenty years behind it. *Angular, TypeScript, Bootstrap*

Local Shoppy (2020) · [Architect, Angular](#) – Another take on running a small shop from your phone, wherever you happen to be. *Angular, Laravel, PHP, MySQL*

Insurance platform – US (2021) · [Full-Stack](#) – Insurance products for a big US provider, using DDD, vertical slicing and some AI. *.NET Core, React, MS SQL, AWS*

IoT backend framework – Australia (2020) · [Backend](#) – The connected-device backend for a major Australian telecom, built as microservices on Azure. *.NET, Node.js, CosmosDB, Azure*

Sales & financial backend – Australia (2020) · [Backend](#) – The financial-data backend for Australia's largest auctioneer, done TDD with SDKs shipped as npm packages. *Node.js, MS SQL, MongoDB, Azure*

Conversational AI & Chatbots · 2016 – 2020

Chatbot for a Big-4 auditing firm (2019) · [Architect](#) – An assistant inside an auditing platform that answers FAQs and pulls up data. *C#, Angular, Azure, LUIS*

Multi-tenant chatbot platform (2017) · [Team Lead](#) – A self-serve platform for building text and voice bots from skills, APIs and FAQs, across every major channel. *Node.js, TensorFlow, OWL, Rasa*

Chatbot for an FMCG brand (2017) · [Developer](#) – A product-FAQ bot that drove customer chats and leads over web and Facebook. *C#, Xamarin, Cassandra, LUIS*

Google & Alexa astrology skills (2017) · [Developer](#) – Voice skills that give Vedic-astrology readings from very little input. *Node.js, AWS Lambda, Dialogflow, Cassandra*

Vedic astrology chatbot (2016) · [Developer](#) – A bot that messaged people every day, with around 25k daily users. *C#, Ionic, Cassandra, wit.ai*

ERP chatbot (2018) · [Developer](#) – A chatbot for ERP software, wired into web portals, mobile apps and Facebook pages, with predictive nudges. *C#, Xamarin, Cassandra, LUIS*

LMS chatbot & CMS platform (2018) · [Web Architect](#) – A chatbot plus WordPress CMS API endpoints for an LMS, on load-balanced servers with daily backups. *PHP, WordPress, MySQL*

Mobile & Web foundations · 2015 - 2017

Biorhythm apps – iOS & Android (2016) · [Mobile](#) – Lead-generation apps that crossed 100,000 installs. *Objective-C, Java, Realm*

Xamarin astrology app (2016) · [C# Dev](#) – Cross-platform astrology readings, with the logic ported from Java to C#. *C#, XAML, Xamarin*

Astrology e-commerce portal (2015) · [PHP Dev](#) – A store serving 150,000 visitors a day across 70-plus services, grown with growth-hacking and SEO. *PHP, jQuery, MySQL*

Internal CRM & landing platform (2015) · [PHP Dev](#) – A CRM for sales and service teams, plus a run of high-volume ad landing pages. *PHP, JavaScript, MySQL*

Daily Info Android app (2018) · [Android](#) – A material-design info app kept fresh with steady security and feature updates and analytics. *Kotlin, SQLite, Realm*

Ionic data-collection app (2016) · [Ionic](#) – A cross-platform internal app for collecting data, with analytics and staged bug-fix notifications. *Ionic, TypeScript, Node.js, SQLite*

Windows Phone / Windows 8 apps (2014) · [App Developer](#) – 14 B2C apps across the Windows ecosystem, built full-stack. *C#, XAML, Xamarin*

SKILLS

Languages: TypeScript, JavaScript, Python, C#, Java, Kotlin, Swift, Dart, PHP, Node.js

AI & Conversational: LangChain, OpenAI, TensorFlow, Scikit-learn, Rasa, Dialogflow, LUIS, Bot Framework, Alexa, Google Assistant, IBM Watson, SageMaker

Web & Frameworks: Angular, NestJS, React, Next.js, Vue, Nuxt, Express, Laravel, Astro

Mobile: Flutter, React Native, Android, iOS, Ionic, Xamarin, Cordova

Cloud & DevOps: Azure, AWS, Google Cloud, Jenkins, Docker, CI/CD, Azure DevOps

Data: PostgreSQL, MongoDB, MS SQL, MySQL, Redis, Cassandra, YugabyteDB, CosmosDB

Also known as: AI (Artificial Intelligence), ML (Machine Learning), NLP (Natural Language Processing), LLM (Large Language Models), RAG (Retrieval-Augmented Generation), API (Application Programming Interface), REST (Representational State Transfer), CI/CD (Continuous Integration and Continuous Delivery), SaaS (Software as a Service), IoT (Internet of Things), TDD (Test-Driven Development), DDD (Domain-Driven Design), UX (User Experience), ERP (Enterprise Resource Planning), POS (Point of Sale)

SPEAKING & RECOGNITION

- TEDx speaker – "Why are we breathing", TEDxMBCET, February 9, 2019 (theme "Observably Random").

- 150+ stages spoken on; 2000+ students trained; hundreds of developers mentored.
- Featured in Malayala Manorama on AI/NLP (2018) and Android programming (2018).

Selected stages

2024 - K-MUG TechDay · Building your first web app with SvelteKit

2024 - De Paul Institute of Science & Technology · Guest session

2020 - Lockdown Tech-Talks · Blazor: A Single-Page Adventure of Microsoft

2019 - Kochi Tech Summit · Conversational Automation for Business Growth · Kerala Startup Mission

2019 - Heera College of Engineering · Tech session, Nedumangad

2019 - Jyothi Engineering College · K-MUG Academia

2019 - MEA Engineering College · Developer session, Perinthalmanna

2019 - TKM College, Kollam · UI/UX for Android - 2-day workshop

2019 - MES Kuttipuram · Developer boot camp

2019 - TEDxMBCET · "Why are we breathing?"

2019 - Augmenta · Speaker session

2018 - Mar Baselios · Talk on simulated reality

2018 - TKM College of Engineering · "Android Programming" - MCA expert talk

2018 - K-MUG · Implementing Bots in Real-Life Projects

2018 - MES College of Engineering · Inspiria'18 - Mobile UI/UX Design workshop

2018 - Heera College - Fab Lab · Student interaction, Nedumangad

2018 - K-MUG TechDay, Trivandrum · B-HUB

2018 - K-MUG TechDay · "Get ready for Ionic 4!" - Orion Innovation, Kochi

2018 - GEC Sreekrishnapuram, Palakkad · K-MUG Academia - Bots, NLP & LUIS (4 sessions)

2017 - K-MUG TechDay · Chatbots session, Lulu Cyber Park, Kochi

2017 - MOBConf Tech Talks STE11 · KSUM Technopark, Trivandrum

2019 - WordCamp Kochi · Registration Wrangler (2019) · community participant (2017)

OPEN SOURCE

eslint-plugin-typeorm-enterprise - ESLint & oxlint plugin for TypeORM: block raw SQL, prevent SQL injection, enforce transactions, guard multi-tenant queries, and apply enterprise backend governance. *npm · TypeScript*

craftkit - Quality gates packaged as Claude Code plugins. Asks what you work on, then installs only those tools and pins each upstream to a commit. *npm · JavaScript*

plainspoken - Fails the build when writing reads as machine-written. Catches AI phrases, vague tails and paired adjectives, and stays quiet on plain facts. *npm · JavaScript*

pagecheck - Finds what a desktop review misses: horizontal overflow and the element causing it, text under 12px, tap targets under 44px, contrast below AA. *npm · JavaScript*

ats-resume - Checks that an applicant tracking system can read a résumé at all, then matches it against a posting. Built on the JSON Resume schema. *npm · JavaScript*

100+ repositories on GitHub - github.com/alokraj68

EDUCATION

Bachelor of Computer Application (BCA)

C.V. Raman University · 2015 - 2018

B.E, Computer Science & Engineering (coursework)

Maharaja Engineering College (Anna University) · 2010 - 2014

CERTIFICATIONS

- IBM Enterprise Design Thinking Practitioner
- Data Science Foundations: Data Mining
- Data Science & Analytics Career Paths: First Steps
- Automate a business process using Microsoft Flow
- Statistics Foundations: 1
- Security in the Enterprise - Microsoft Virtual Academy
- Data Structures & Algorithms - IIT Madras