

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 and co-founder & CTO at Cliniqally Healthtech, leading cross-functional teams that have delivered 100+ products for clients across India, the Gulf, Australia, Europe, and the US. Proven record setting technology strategy and roadmaps, scaling and mentoring engineering teams, and shipping scalable, secure cloud platforms spanning AI/LLM, conversational AI, full-stack web, and mobile. 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 · Dubai, UAE · Riyadh, Saudi Arabia · Muscat, Oman · Kuala Lumpur, Malaysia

Own technology strategy and architecture across AI, full-stack SaaS, and mobile, leading cross-functional engineering teams that have delivered 100+ client projects across healthcare, retail, banking, and enterprise from pre-sales through delivery.

- Directed delivery of 100+ client projects end to end, consistently shipping on time and to spec.

- Owned enterprise architecture across AI, cloud, and full-stack, standardizing the technology stack and engineering practices.

- Built, scaled, and mentored cross-functional engineering teams; led hiring and onboarding.

- Partnered with clients through demos and solutioning to align architecture with business objectives.

Co-Founder & CTO · Cliniqally Healthtech

May 2022 – Present · Bangalore, Karnataka, India · Dubai, United Arab Emirates

Co-founded an AI-powered healthtech startup and set the full technology vision, architecture, and roadmap for scalable, secure clinical products, while leading the engineering team, vendors, and cross-functional delivery.

- Defined product architecture for scalable, secure healthcare platforms handling sensitive patient data.

- Led development and hands-on code review to maintain a high engineering quality bar.

- Managed and mentored the engineering team and owned vendor relationships across India and the UAE.

- Advised investors on budget allocation and long-term technical sustainability.

IT Advisor · AI Adrak Trading & Contracting Co LLC

Jul 2024 – Mar 2025 · Muscat, Sultanate of Oman

Led digital transformation for the business: shaping the strategy, driving AI adoption where it delivered ROI, improving UX and internal processes, and running IT audits to optimize technology spend.

- Defined and rolled out the company-wide digital-transformation strategy.

- Drove AI and emerging-technology adoption where it delivered measurable ROI.

- Redesigned UX and re-engineered internal business processes end to end.

- Conducted IT audits and optimized procurement, reducing technology spend.

Consultant II — Data & AI · Neudesic

Mar 2020 – May 2022 · Kochi, Kerala, India

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

- Delivered IoT platforms and R&D initiatives for a major Australian telecom.

- Enhanced ERP and internal applications for an Australian auction group and a US financial-services firm.

- Developed and fine-tuned internal AI/ML models using TDD, DDD, and microservices on Azure pipelines.

- Maintained SonarCloud and ESLint standards with 80%+ automated test coverage.

Senior Software Engineer · Orion Business Innovation

Jan 2019 – Mar 2020 · Kochi, Kerala, India

Designed and built enterprise chatbots and internal applications for a Big-4 firm, integrating them with enterprise systems in an Agile environment using Node.js, Angular, .NET, and Azure.

- Designed and built complex chatbots for a Big-4 firm's internal workflows.

- Developed and maintained business-critical internal apps integrated with enterprise systems.

- Collaborated directly with Big-4 stakeholders to align delivery with business goals.

- Delivered in Agile with cross-functional teams and ran the IoT lab.

Staff Engineer — AI / Chatbots · bitWise Academy

Sep 2017 – Jan 2019 · Coimbatore, Tamil Nadu, India · San Francisco, California, USA

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

- Architected AI chatbot platforms 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.

- Built internal systems and a team messaging platform.

Lead Developer → Programmer → PHP Developer · Astro-Vision FutureTech

Feb 2015 – Aug 2017 · Kochi, Kerala, India

Promoted from PHP Developer to Innovation Team Lead, delivering chatbots, voice skills, cross-platform mobile apps, and high-traffic e-commerce serving 150,000+ daily visitors.

- Promoted to Innovation Team Lead; drove adoption of emerging technologies across teams.

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

EDR POS (2023) · [Senior Architect & Lead Dev](#) — A POS for restaurants and cloud kitchens built for millions of users, with web and native apps, OpenAI, face recognition and FAQ bots. *NestJS, Angular, Flutter, OpenAI*

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

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

Cliniqally — Patient App (2022) · [Senior Backend Dev](#) — 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 Dev](#) — A food-delivery platform tying together diners, restaurants and delivery partners. *Node.js, React Native, Flutter, PostgreSQL*

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

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

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

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

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

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

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

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

Budmore (2023) · [Senior Architect & Lead Dev](#) — 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) · [Senior Architect & Dev](#) — An asset-management and supply-chain platform for an operations firm with twenty years behind it. *Angular, TypeScript, Bootstrap*

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

Insurance platform — US (2021) · [Senior Full-Stack Dev](#) — 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) · [Senior Backend Dev](#) — The connected-device backend for a major Australian telecom, built as microservices on Azure. *.NET, Node.js, CosmosDB, Azure*

Sales & financial backend — Australia (2020) · [Senior Backend Dev](#) — 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) · [Senior Architect & Dev](#) — An assistant inside an auditing platform that answers FAQs and pulls up data. *C#, Angular, Azure, LUIS*

Multi-tenant chatbot platform (2017) · [Senior Dev & 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) · [Senior Dev](#) — A product-FAQ bot that drove customer chats and leads over web and Facebook. *C#, Xamarin, Cassandra, LUIS*

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

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

ERP chatbot (2018) · [Senior Dev](#) — 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) · [Senior Web Dev / 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) · [Senior Mobile Dev](#) — Lead-generation apps that crossed 1 lakh installs. *Objective-C, Java, Realm*

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

Astrology e-commerce portal (2015) · [Senior PHP Dev](#) — A store doing 1.5 lakh 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) · [Senior Android Dev](#) — A material-design info app kept fresh with steady security and feature updates and analytics. *Kotlin, SQLite, Realm*

Ionic data-collection app (2016) · [Senior Ionic Dev](#) — 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

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 S1E11 · 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*

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