

Vanaj Krishna Moorthy

Full Stack Software Engineer

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EDUCATION

University of St Andrews – BSc. in Computer Science (with honours)

September 2020 – June 2024

First class degree classification

Dean's List 2021, 2024 for academic excellence

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, HTML, CSS, SQL

Technologies: React, Next.js, React Native, ExpressJS, MongoDB, PostgreSQL, AWS, Terraform, SST

WORK EXPERIENCE

Alvie Health — React | React Native | Jest | Express | MySQL | Terraform | SST | AWS

April 2024 — Present

Software Engineer

- Designed and implemented an AWS Step Functions SMS workflow using SST for sending reminders to patients that reduced DNA (Did Not Attend) scores by 50%, recovering up to £8000/month and improving patient engagement.
- Built a custom NPS (Net Promoter Score) survey component, increasing survey completion rates by 40%, contributing to Alvie's industry-leading NPS score of 80.
- Productionised a RAG (Retrieve-Augment-Generate) model using AWS SageMaker for generating personalised health coach recommendations, saving at least 1 hour of health coach time per patient every week.
- Spearheaded final app polishing, working closely with a UI/UX designer to implement skeleton loaders, animations, and last-mile UI/UX improvements, ensuring a seamless user experience before release.
- Developed numerous key features in TypeScript and React Native with Expo, contributing to a cross-platform app with professional quality.
- Engineered automation scripts to accurately transcribe patient calls, reducing human error by 40%.
- Refactored a legacy Express.js API codebase into a fully tested, typesafe TypeScript implementation, improving developer productivity and code maintainability with guidance from senior engineers.
- Developed a CRM for navigators, automating manual patient onboarding workflows and saving an estimated 20 hours per week across the navigator team.
- Rebuilt and optimised Statamic website hosting, cutting load times by 50% and increasing uptime through efficient Terraform-based infrastructure management.

Alvie Health | [Website](#) — HTML | CSS | JavaScript | Jest

April 2022 — September 2023

Software Engineer Intern

- Executed a complete redesign of the landing page, resulting in a 25% increase in user retention time.
- Conducted rigorous testing of the Alvie mobile app, identifying and resolving 5+ critical bugs, improving app stability by 30%.

The Orange Yak Co | [Website](#) — NextJS | ReactJS | Django | Postgres

April 2020 — April 2022

Co-founder, Web Developer, UI/UX Designer

- Founded and scaled the company from 2 to 15+ team members, acquiring 30+ clients worldwide within 2 years. Led client acquisition and learnt how to negotiate and close large deals, alongside communicating with clients.
- Developed and delivered 10+ high-impact web applications for venture capital firms, resulting in an average 40% improvement in their internal processes.
- Developed a full-stack e-commerce platform for selling second hand clothes using Django on the backend and implemented a complex front-end to serve the platform using ReactJS.
- Designed and implemented the front-end for a "Knowledge Hub" using ReactJS for Beenext Partners where VCs could collate and share documents, reports and other resources on startups and founders in one convenient place to better help them make investment decisions.

ACT Grants | [Website](#) — Wordpress, ExpressJS

April 2020 — April 2022

Web Developer

- Orchestrated communication between 70+ stakeholders, ensuring 100% alignment on project goals and timelines.
- Developed and launched a high-performance donation page that processed over 1 billion INR in donations from 80,000 weekly visitors, achieving a 5% conversion rate.