

# Sean Amarasinghe

**Lead Engineer** — A Lead Engineer with 21 years of experience architecting, designing, and building highly scalable, user-centric web applications — from AI-powered recommendation systems to enterprise-grade platforms.

Portfolio · GitHub · LinkedIn

## SUMMARY

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Hi, I'm Sean — a Lead Engineer with over two decades of experience across the full frontend and full-stack spectrum. I specialise in JavaScript/TypeScript, React, Vue.js, Golang, and Python, and I've spent recent years focused on integrating Generative AI and LLM-powered features (recommendation engines, RAG, agentic systems) into large-scale production web platforms. I've led engineering teams, driven monorepo and CI/CD modernization efforts, and partnered closely with product, data science, and design teams to ship AI-driven features responsibly and at scale.

## EXPERIENCE

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### Senior Software Engineer · Entain

Nov 2025 — Present · Remote

Vue 3 Composition API + TypeScript monorepo powering the AI-driven Casino vertical across a multi-brand web platform.

- Built the casino lobby, game discovery, launch, and in-game player experiences (Vue 3, TypeScript, Tailwind, Golang gRPC microservices).
- Integrated GraphQL game / promotions / rewards / player-profile services with Vue Query and Pinia.
- Built agentic LLM systems: planning, tool use, and memory orchestration (LangGraph, Pydantic).
- Delivered AI-powered game recommendations and personalized promotions/rewards via ML segmentation.
- Established experimentation / A/B testing frameworks and Vitest coverage within an npm-workspaces monorepo.

Vue 3 · TypeScript · Golang · GraphQL · LangGraph · Pydantic · Tailwind CSS · Vitest

### Lead Engineer · Seek

Aug 2021 — Oct 2025 · Melbourne

Led a team of 5 engineers across Brand Experience & Job Posting (company profiles and job posting).

5 Engineers led · **20%** Faster builds · **20%** More code reuse · **30%** Faster CI

- Consolidated repositories into Nx/PNPM monorepos, delivering 20% faster builds and 20% more code reuse.
- Optimized Buildkite CI/CD with artefact caching and dependency-graph analysis for 30% faster builds.
- Architected the Company Profiles platform (Next.js App Router, React, TypeScript, Node.js, AWS).
- Shipped production GenAI: job-ad creation and content enrichment/moderation via Amazon Bedrock.
- Built real-time AI streaming (SSE), RAG integration, and prompt orchestration & governance frameworks.
- Re-engineered Playwright E2E suites with AI-assisted test generation.

Next.js · React · TypeScript · Node.js · AWS · Amazon Bedrock · RAG · Playwright

## **Principal Engineer (Frontend) · Cricket Australia**

Jan 2019 — Aug 2021 · Melbourne

Principal Engineer (Oct 2019 – Aug 2021) and previously Lead Frontend Developer (Jan 2019 – Oct 2019) on cricket.com.au and playcricket.com.au.

3 Engineers mentored

- cricket.com.au – The digital website for Cricket Australia. playcricket.com.au – Grassroots cricket platform.
- Provided the frontend engineering team with best practices and technical guidance.
- UI stack contained Next.js, React, Flow, styled-components and Apollo/GraphQL. Source control with Git/GitHub.
- End-to-end testing with Cypress and unit testing with Jest. Static analysis tools including ESLint and SonarCloud.
- .NET/Azure platform for API.

Next.js · React · Flow · styled-components · Apollo GraphQL · Cypress · Jest

## **Software Engineer · InterNations**

Jan 2018 — Jan 2019 · Munich

Software engineer on the InterNations web application, working with a small Agile team.

- InterNations web application – The desktop application for InterNations. Worked with a small team of Agile developers.
- UI stack contained React/Redux, Flow, Sagas and styled-components, plus Backbone. Source control with Git.

React · Redux · Flow · Sagas · styled-components · Backbone

## **Senior Front End Developer · RXP Services**

May 2016 — Jan 2018 · Melbourne

Senior front end developer on Telstra Health and Sendle eBay Integration, working with a mid-sized Agile team.

- Telstra Health – Bespoke solution to help healthcare organisations improve patient comfort, provide home healthcare services, automate monitoring, and streamline routine tasks.
- Sendle – eBay Integration – Integrating with the eBay third-party API. Worked with a mid-sized team of Agile developers.
- UI stack contained React/Redux, Sagas and LESS. Unit testing with Jest. Tools including ESLint, StyleLint and Webpack.
- .NET Microservices and backend; some projects involving a Ruby on Rails backend.

React · Redux · Sagas · LESS · Jest · .NET

## Senior Front End Developer · Xero

Jun 2014 — May 2016 · Melbourne

Senior front end developer working in mid-sized PODs with a PO, QAs and developers on Fixed Assets and Quotes.

- Fixed Assets – Replacing a legacy version of fixed assets management in Xero. Worked in a mid-sized team of developers in PODs with a PO, QAs and developers.
- UI stack contained React, Redux/Flux, SASS and CSS. End-to-end and unit tests with Nightwatch.js. Ext.js 5.1 was used for the first release.
- Quotes – New quotes feature for the accounting system. Worked in a mid-sized team of developers in PODs with a PO, QAs and developers.
- UI stack contained Ext.js 4.3, SASS and CSS. Unit tests with Mocha and Chai.

React · Redux · Ext.js · SASS · Nightwatch.js

## Front End Developer / Software Developer · UHG

Dec 2011 — May 2014 · Melbourne

## SharePoint Developer / Silverlight Developer · Xactr

Apr 2010 — Nov 2011 · Melbourne

## .NET Analyst Programmer (C#/Silverlight) · Civica

Nov 2008 — Nov 2009 · Melbourne

## .NET Analyst Programmer (C# / Silverlight / WCF) · GlaxoSmithKline

Nov 2007 — Nov 2008 · Melbourne

## Analyst Programmer · Crown Melbourne

Aug 2006 — Nov 2007 · Melbourne

## Software Engineer · United Group Ltd

Dec 2005 — Aug 2006 · Melbourne

## Software Developer · Softlogic Australia Ltd

Jan 2005 — Dec 2005 · Melbourne

## PROJECTS

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- **TWE — Travel World & Explore** — <https://travelworldandexplore.com>  
A travel discovery guide featuring curated European city profiles — from Bergen to Vienna — alongside in-depth destination articles and itineraries.
- **Segrep** — <https://segrep.com>  
A developer security platform that bundles six core vulnerability scanners (Trivy, Semgrep, Gitleaks, Checkov, Syft, and OSV/GHSA dependency scanning) into a single Docker image — with SARIF export, policy-as-code, and CI gating.
- **MyMovieDB** — <https://mmdbstar.com>  
A personal movie catalogue for tracking watched films with their related actors and genres, featuring popularity rankings and ratings.
- **RetroCric** — <https://retrocric.com>  
A digital magazine celebrating cricket's golden years — the stories, rivalries, and iconic moments that shaped the game, with feature articles and a learn section.

## SKILLS

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**Languages:** JavaScript, TypeScript, Golang, Python, C#, C++, C

**Frameworks:** React.js, Redux/Sagas, Vue.js, Next.js, Node.js

**Databases:** MS SQL Server, PostgreSQL Server, MongoDB, DynamoDB

**Cloud:** AWS

**Infrastructure:** Docker, Kubernetes

**AI / ML:** LLM integration, LangGraph, RAG, Amazon Bedrock, Prompt orchestration, Agentic systems

## EDUCATION

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- **Bachelor of Computing** — Deakin University (2006)
- **Diploma in Information Technology** — NIIT (2004)

## PUBLICATIONS

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- **Book:** Service Worker Development — <https://www.amazon.com.au/Service-Worker-Development-Cookbook/dp/1786465299>
- **Course:** Monorepos & PNPM — <https://www.newline.co/courses/the-art-of-enterprise-monorepos-with-nx-and-pnpm>

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