

Ahmed Forneas

AI driven Senior Software Engineer

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 Portfolio

Summary

AI driven Senior Software Engineer with 8 years of experience in building scalable **full-stack web and AI applications** using **React, Node.js, Python**, and **AWS cloud services**. Proven track record of delivering production-grade systems, including **e-commerce** platforms, **generative AI** solutions, and **serverless architectures** while optimizing performance, security, and deployment through **modern DevOps** practices.

Professional Experience

Senior Software Engineer, Quadrivia (remote)

08/2023 - 12/2025

London, UK

- Led the development of the infrastructure for an **e-commerce** platform (React, Node) and **AI image generator** platform (React, Python).
- Deployed scalable backend services on **AWS** with **Docker**.
- Designed and deployed production-grade AI and **Machine Learning** system at scale.
- **Optimizing** algorithms for speed, scalability, and memory efficiency.
- Built generative AI applications using **LLMs, RAG** pipelines and **Vector** search.
- Implemented distributed and containerized systems using **Cloud infrastructure**.
- Integrated **Open AI** and **Gemini APIs** to deliver intelligent user experiences.
- Automate engineering workflows using **Python, Perl** and **Shell scripting**.
- Designed and implemented **CI/CD pipelines** with **Docker, GitHub Actions, AWS Code Pipeline, ECS, and ECR** to automate testing, integration, and deployment processes.
- Developed **secure web applications** with a strong understanding of vulnerabilities such as Cross-Site Scripting (**XSS**) and Cross-Site Request Forgery (**CSRF**).
- Provided technical leadership, mentoring, and architectural guidance.

Senior Full Stack Developer, Nearshoring Brasil (onsite)

01/2021 - 06/2023

Centro, Rio de Janeiro
- Brazil

- Built serverless backend services with **AWS Lambda**, enabling **cost-efficient** scalability and improved performance under variable workloads.
- Created full-featured **eCommerce** and **Real Estate** management platforms with **React/Vite, TypeScript** and **PostgreSQL**.
- Developed the frontend of a **P2P game** using **React.js** and **Web3**, and developed a **crypto wallet** with **React.js, Node.js**, and **Ether.js**.
- Designed and maintained a robust testing framework using **Jest** and **Cypress**.
- Developed **AI-powered** web applications(**Health Assistant**).
- Integrated various **Third-Party APIs** for SMS, push notifications, email, and WhatsApp messaging, enhancing user communication and engagement features.
- Integrated with Third-Party Services such as **payment gateways (PayPal, Stripe, Authorize.net)**, shipping providers (**FedEx, UPS, USPS**) to extend platform functionality, and inventory management systems to streamline operations and enhance user experience.

Full Stack Developer, Freelancer	10/2019 – 12/2020 Centro, Rio de Janeiro – Brazil
<ul style="list-style-type: none"> Developed scalable web applications for Real Estate management. Translated complex business requirements into clean, user-centered interfaces. Improved backend performance using database indexing, Redis caching. Developed Html5 Slot games backend and BC games. Developed Warehouse management and Inventory systems with TypeScript, React. Developed Financial accounting program with C#. Developed Student management assistance 	
Frontend Developer, Parafernalia Interativa (onsite)	02/2018 – 09/2019 Centro, Rio de Janeiro – Brazil
<ul style="list-style-type: none"> Auto schedule management system with React.js Built PDF meeting assistant tools with chrome extensions with JavaScript and canvas. Collaborated with backend teams , built 3 blog websites and an advertising website with React.js and Wordpress. 	
Internship, Parafernalia Interativa	12/2017 – 01/2018 Centro, Rio de Janeiro – Brazil
<ul style="list-style-type: none"> Applied advanced responsive design and optimization techniques using React, TypeScript. Learn tools(VS Code, Photoshop, Unity), systems(Windows, Android, Linux, MacOS), and best practices 	

Skills

Frontend

TypeScript, React, Next, Vite, Vue.js, Tailwind CSS, HTML5, CSS3

AI & Integrations

OpenAI, Gemini, LLMS, RAG, Prompt Engineering, Vector, Chatbot, Serverless Architecture

DevOps & Testing

GitHub Actions, CI/CD, Docker, Kubernetes, Jest, Cypress, AWS Code Pipeline, Playwright

Database & Cloud

MySQL, PostgreSQL, SQLite, MongoDB, Firebase, NoSQL, Cloud Storage, Redis, AWS, CDN

Backend

Node.js, Express.js, NestJS, Python, Django, FastAPI, Flask(Jinja2), Clerk (Authentication)

Other

Chrome Extension, Slot Game Development, Web Scraping, Data Analysis, Photoshop

Education

Bachelor of Computer Science, Federal University of Pampa

03/2014 – 12/2017