

Ahmed Forneas

AI driven Senior Software Engineer

✉ ahmedforneas99v@gmail.com ☎ +55 21965928723 📍 Rio de Janeiro, Brazil

🌐 linkedin.com/in/ahmed-forneas-3403b93b3 🔗 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

- 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, Parafernália Interativa (onsite)

02/2018 – 09/2019

Centro, Rio de Janeiro
– Brazil

- 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, Parafernália Interativa

12/2017 – 01/2018

Centro, Rio de Janeiro
– Brazil

- 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

Database & Cloud

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

AI & Integrations

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

Backend

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

DevOps & Testing

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

Other

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

Education

Bachelor of Computer Science, Federal University of Pampa

03/2014 – 12/2017