Aadit Kamat

📞 +(1)352-709-5920   ✉ aaditkmt@gmail.com   ⓞ github.com/aaditkamat   🌐 aaditkamat.me

Objective

Software engineer with experience in cloud-based backend systems, full-stack web development, and data-driven consulting. Skilled in AWS, Python, Node.js, and microservices architecture, with a passion for building scalable, secure, and user-focused solutions.

Experience

Visa Worldwide Pte Ltd   **March 2022 − September 2022**
Software Engineer   *Singapore, SG*

- Developed and deployed Spring Boot-based microservices to support high-volume transaction processing (¿100K TPS), aligning with cloud-native architecture and performance goals.
- Designed and integrated RESTful APIs with frontend components for internal admin portals, improving scalability and enabling multi-regional Innovation Centre operations across APAC and EMEA
- Developed unit tests to validate functional requirements and ensure WCAG accessibility compliance for the IC portal

Shopee Singapore Pte Ltd   **May 2021 − March 2022**
Quality Assurance QA Engineer   *Singapore, SG*

- Diagnosed and resolved complex technical issues in containerized environments, reducing test failures by 25 % and significantly improving deployment stability
- Developed and maintained over 100 automated test cases for the promotion modules Shopee's Android app to enhance the experience for millions of users
- Led hands-on training for 50 engineers on Espresso and UiAutomator, cutting onboarding time and boosting automated test coverage by 15%

NUS Information Technology   **December 2018 − March 2019**
Software Engineering Intern   *Singapore, SG*

- Designed and built a React.js web portal to streamline NUS IT's annual firewall rule review process, replacing a manual, email-based workflow
- Integrated ADFS authentication with Passport.js OAuth to enable secure, department-based access
- Automated retrieval of firewall data on a nightly basis via Tufin APIs using cron jobs and stored them with MongoDB

Autodesk Pte Ltd   **December 2018 − March 2019**
Test Automation Intern   *Singapore, SG*

- Automated regression tests in Python, reducing manual regression testing effort by 90+ hours
- Performed cross-platform testing across multiple versions of Autodesk products using CI/CD pipelines with Jenkins to ensure consistency and stability
- Devised and implemented a merge plan to consolidate common functionalities across test codebases, improving maintainability and reducing duplication

Projects

LegalLingo | *Webpack, Node.js, Express.js, Typescript, Google Cloud*   **September 2024 - September 2024**

- Built LegalLingo, a Node.js-based Chrome extension that analyzes legal language (e.g., Terms of Service, Privacy Policies) for predatory or user-unfavorable clauses using Gemma 2.0 APIs within Google Cloud Vertex AI
- Addressed a critical gap for both non-native English speakers and general audiences unfamiliar with complex legal jargon, promoting digital transparency and user empowerment

DSSD LEAP Dashboard | *React, Redux, D3.js, TailwindCSS*   **February 2025 - April 2025**

- Built an interactive web application with React and D3.js to track energy efficiency KPIs, enabling policy makers to assess LEAP program impact
- Deployed web application on Netlify so that stakeholders can easily access and showcase metrics

EchoChat | *Expo Go, Typescript, Websockets, Mailgun, Firebase, Jest*   **September 2023 - December 2023**
- Resolved critical TypeScript errors across the codebase, improving overall developer experience and reducing runtime issues in development environments
- Implemented email verification functionality using Mailgun to create secure onboarding flows

Jacksonville Energy Authority(JEA) | *Excel, PowerBI*   **September 2024 - November 2024**
- Created mockups based on Excel data tracking employee performance and customer satisfaction metrics
- Effectively translated business requirements into functional PowerBI dashboard designs for executive decision-making

Technical Skills

Programming Languages: Python, JavaScript, TypeScript, R, SQL, HTML, CSS
Frameworks & Libraries: React.js, Node.js, Express, Flask, PyQt, Qt Designer, Pandas, NumPy, Matplotlib, Seaborn, scikit-learn, Jupyter, Plotly
DevOps & Cloud Platforms:Docker, Nginx, Firebase, Heroku, Google Cloud Platform (Vertex AI, Cloud Functions), Git, GitHub
Databases: MongoDB, PostgreSQL **Testing & Automation**: JUnit, Espresso, UiAutomator, PyTest, Selenium, Jenkins
Data Science & Analytics: Exploratory Data Analysis (EDA), Regression Analysis, Data Envelopment Analysis (DEA), Biostatistics, Predictive Modeling, PowerBI, Excel
Healthcare & Research Tools: Variant Effect Predictor (VEP), ArtiQ (Quantum Experiment Control), Tufin APIs (Firewall Data), NIH & WHO Repositories, UF HiPerGator HPC Cluster
Authentication & APIs:OAuth 2.0, Passport.js, REST APIs, Gemma 2.0 APIs (LLM)

Education

University of Florida   **December 2024**
Master of Science in Information Systems and Operations Management   *Gainesville, FL*

National University of Singapore   **June 2021**
Bachelor of Computing in Computer Science   *Singapore, SG*

Certifications

- AWS Certified Cloud Practitioner, Jan 2025

- Databricks Fundamental Accreditation, Jan 2025

- End-to-End Data Engineering Project, Jun 2024