

Freeman Madudili

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Software Engineer | React, TypeScript, Node.js

PROFESSIONAL SUMMARY

Software Engineer with commercial experience building frontend and full-stack applications in fintech environments using React, TypeScript and Node.js. Experienced in developing production-ready user interfaces, integrating APIs, improving application reliability and contributing to customer-facing product workflows. Currently expanding backend engineering skills through independent projects focused on APIs, automation workflows and AI-assisted systems.

EDUCATION

MSc Computer Science with Integrated Placement | Middlesex University, London, UK | Sep 2025 - Present

- Current focus: backend systems, AI-assisted operations, cloud security, applied machine learning and intelligent systems.

BSc Information Technology, First Class | Middlesex University, London, UK | Sep 2020 - Jul 2023

- Final-year project: Software Project Cost and Effort Estimator using Machine Learning.

EXPERIENCE

The Hippodrome Casino | Gaming Operations Specialist | London, UK | Aug 2023 - Present

- Managed live gaming table operations in a fast-paced casino environment, maintaining accuracy, pace, and procedural consistency while handling continuous customer activity.
- Applied strict gaming procedures, compliance standards, and internal controls to protect the integrity of each game and reduce the risk of operational errors.
- Balanced speed, accuracy, and customer experience during high-volume periods, keeping gameplay smooth without compromising fairness or process discipline.
- Made clear, real-time decisions under scrutiny from customers, supervisors, and surveillance teams, ensuring issues were handled quickly and in line with house procedures.
- Monitored table flow, customer behaviour, and game activity to identify potential issues early, escalate when needed, and support a controlled operating environment

Frontend Developer | Pay4Me, Inc | Boise, Idaho, USA | Jan 2022 - Feb 2023

- Built cross-browser payment and onboarding flows adopted by 20+ financial institutions, contributing to 35% customer adoption growth.
- Rebuilt major areas of a production Vue.js platform, contributing to \$60,000 in revenue within the first week of release and 10% month-on-month growth.
- Integrated customer payment journeys with backend APIs, supporting over \$500,000 in processed transactions across production workflows.
- Improved page load time by 20% and increased system throughput by 25% through frontend performance work and API optimization.
- Owned frontend QA across critical journeys, including accessibility checks, device testing and cross-browser debugging in collaboration with product, design and backend teams.

TECHNICAL RESEARCH

AI-Powered Self-Healing Backend Operations System | MSc research prototype - In progress

- Designing a sandboxed backend operations prototype to compare AI-assisted incident diagnosis and recovery planning against predefined baseline recovery methods.
- Planned architecture includes an API service, dependency/database service, logs, metrics, traces, scripted failure injection, allowlisted recovery actions and evaluation logging.
- Evaluation focuses on detection accuracy, diagnosis accuracy, recovery success rate, mean time to detection, mean time to recovery, false recovery actions and unsafe action attempts blocked.
- Scope is deliberately bounded: AI analyses incidents and proposes recovery actions, while execution is constrained through deterministic guardrails.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, C#, SQL, HTML, CSS

Backend and APIs: Node.js, REST APIs, GraphQL, authentication, validation, asynchronous workflows, API integration

Frontend: React, Next.js, Vue.js, Nuxt.js, React Native, Tailwind CSS

Cloud and DevOps: Azure Functions, Docker, GitHub Actions, CI/CD, deployment workflows

Testing and Quality: Jest, Cypress, Storybook, accessibility, cross-browser testing, performance optimisation

Tools: Git, GitHub, Figma, Notion

CERTIFICATIONS

- Microsoft Certified: Azure Developer Associate