MELISSA ADU-POKU

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Full-stack Software Engineer with 7+ years of experience building scalable, user-friendly web and mobile applications using React, TypeScript, and modern JavaScript frameworks. Skilled in creating reusable UI systems, writing high-coverage automated tests, and integrating with REST and GraphQL APIs. Proven track record of driving performance improvements, enhancing engineering workflows, and delivering production-ready features in Agile environments. Collaborative, proactive, and passionate about building clean, maintainable code.

SKILLS

Frontend: React | Next.js | React Native | TypeScript | JavaScript | HTML | CSS
Testing: Jest | Cypress | Gherkin | React Testing Library
Backend: Python | Django | Java | Node.js
Databases: MySQL | PostgreSQL | MongoDB
Dev Tools & APIs: Git | Docker | Jira | REST | GraphQL | Supabase | ESLint | Prettier | Storybook
Development Practices: Agile/Scrum | CI/CD | Github Actions | Component Libraries

PROFESSIONAL EXPERIENCE

MINERALTREE, INC., Cambridge, MA.   **October 2018 – June 2025**
Senior Software Engineer, January 2024 – June 2025
Refactored and co-led a full frontend modernization of customer-facing platform, improving maintainability, scalability, and reducing production UI bugs by 45%.
- Built a reusable design system and component library used across the product engineering teams, cutting new feature UI delivery time by 40% and ensuring uniformity.
- Integrated frontend applications with 20+ REST and GraphQL microservices, supporting many API requests per day with optimized client-side caching and error handling.
- Implemented a comprehensive testing strategy with Jest and React Testing Library across hundreds of components and business-critical workflows, achieving near-complete code and branch coverage and reducing regression-related incidents by 60%.
- Developed a full Cypress E2E testing suite covering critical user flows across 15+ core features, cutting manual QA time significantly and accelerating releases from monthly to biweekly.
- Played a key role in sprint planning, on-call production support, architectural reviews, and mentored junior employees, strengthening team output and engineering quality.

Software Engineer, January 2020 – January 2024
Co-led the development of financial dashboards, customer onboarding flows, and form-heavy workflows for internal operations and external customers.
- Migrated legacy frontend code into a modular React + TypeScript architecture, reducing duplicate logic and dramatically improving developer velocity.
- Partnered with PMs, designers and QA in a fast-paced Agile environment, shipping production features on a biweekly cadence.
- Contributed heavily to CI/CD automation, PR review processes, and test automation, improving deployment reliability and lowering rollback frequency.

Software Intern, October 2018 – January 2020
Developed a Django-based internal financial reporting and payments observability platform used by the finance team to manage multi-million dollar monthly transaction volumes.
- Designed and implemented API integrations syncing internal systems with Salesforce and Churnzero, improving customer success visibility and reducing churn-related operational friction.
- Optimized large MySQL queries supporting high traffic financial reports, cutting average query time by ~55% and improving page load speeds significantly.
- Built standardized downloadable financial reports for enterprise customers and formalized the engineering onboarding process with documentation; reducing new engineer ramp-up time substantially.

N12 TECHNOLOGIES, INC., Cambridge, MA.   **August 2016 – June 2017**
Business Analyst
Automated sales fulfillment workflows using Salesforce + Zapier, reducing order processing time from hours to minutes.

EDUCATION

Bachelor of Arts (B.A.), Economics   Smith College, Northampton, MA **| 2015**