Kenneth Lee

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Experience

Senior Software Engineer at Capital One | Apr 2023 – Present

- Architected a 2FA integration involving Angular, API Gateway, and backend services, enabling virtual credit card numbers across multiple LOBs while ensuring compliance with fraud prevention requirements.
- Designed and launched automated digital enrollment email reminders in Java, increasing user enrollments on credit card accounts by 15.4% YoY and boosting purchase volume by 6.6% YoY.
- Automated end-to-end testing with Playwright, saving one hour/week and accelerating release sign off.
- Optimized test account conditioning automation, improving build reliability and reducing runtime by 80%.
- Architected reusable shared modals by introducing Angular standalone components to the codebase, reducing redundant development across small business card teams.
- Led A/B testing integration, optimizing UX and content to boost digital enrollments by 9% and reduce authorized user removals by 11%.
- Mentored engineers across teams, driving adoption of testing frameworks and expanding test coverage.

Full Stack Software Engineer at MikMak | May 2022 – Jan 2023

- Expanded global presence to 29 countries by implementing internationalization (i18n) for *Commerce* using Vue, enabling users to search for stores outside of the U.S.
- Integrated a consent management system, achieving full regulatory compliance for global data privacy laws and securing legal approval for continued operations.
- Designed and optimized a high-performance API in Node.js, reducing query latency and cutting cloud costs by migrating to PostgreSQL.
- Developed and maintained VIP (alcohol inventory database), unlocking new partnerships with alcohol brands and expanding revenue streams.
- Automated CI/CD pipelines using GitHub Actions and Heroku, reducing QA build times and saving engineers an hour per sprint.

Front End Software Engineer at American Express | Feb 2020 – May 2022

- Optimized core financial dashboards, reducing page load times by 70% and improving customer experience and conversion rates.
- Developed scalable, reusable Angular components, leveraging services for maintainability and reducing tech debt.
- Owned front-end development for key features, collaborating with back-end engineers to ensure seamless integration.
- Established development workflows and documentation, reducing onboarding time for new engineers and improving team efficiency.

Education

New York University | 2019
B.S. in Computer Science, Minor in Mathematics

Technical Skills

Languages & Frameworks: JavaScript, TypeScript, Python, Node.js, C/C++, Java, React, Angular, Vue, RxJS
Databases: PostgreSQL, MySQL, MongoDB, DynamoDB
DevOps & Tools: Git, GitHub Actions, Docker, Jest, Playwright, Cypress, AWS (Lambda, S3, API Gateway), Jira