

MOHAMMED AMIN

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PROFESSIONAL SUMMARY

Software Engineer with 5 years of experience building scalable, high-performance applications using **React, TypeScript, and Node.js**. Proficient at bridging complex data analysis with user-centric product design. Excels at adapting to new tools, ecosystems and cultures while delivering strong results in high paced environments.

TECHNICAL SKILLS

Frontend Core: React, Next.js, TypeScript, JavaScript, HTML5, CSS3, SASS, Babel, Webpack, Storybook, Figma

Backend & DB: Node.js, Express, Java, SpringBoot, GraphQL, PostgreSQL, DynamoDB, AWS S3, MongoDB

Testing & QA: Playwright, Cypress, Jest, React Testing Library, Enzyme

EXPERIENCE

American Express

October 2024 – Present

Software Engineer II

- Spearheading the migration of legacy architectures to React 19 and Node.js, implementing TanStack Query to architect a robust caching strategy that optimized data-fetching performance and significantly reduced redundant API overhead.
- Playing a critical role in the successful launch of Amex's rebranded Business Blueprint platform, demonstrating strong problem solving and decision making skills to ensure a seamless launch and high customer satisfaction.
- Engineering scalable micro-frontend modules for a global user base of 36M+, ensuring high-quality, well-tested code through rigorous design reviews and modern software engineering practices.
- Contributing to a scalable content delivery pipeline using GraphQL and Apollo Client, streamlining data retrieval from Contentful CMS and significantly reducing network overhead through strategic caching policies.
- Established an automated end-to-end testing framework using Playwright, mentoring developers on testing standards to reduce production defects and improve release confidence.
- Optimizing legacy modules with best practices to improve Core Web Vitals and eliminate A11y defects, most notably reducing LCP by ~.5 seconds.
- Charged with handling regular deployments to development and pre-production environments via Jenkins pipelines. Also, facilitating A/B testing on lower environments for seamless product sign-off and release.
- Responsible for providing technical guidance and code review to team members, and hosting daily tech talks for collaboration/assistance.
- Collaborating directly with Engineering and Product VPs to define technical roadmaps, provide progress transparency, and align new initiatives with enterprise business goals.

CVS Health

May 2022 – October 2024

Software Engineer

- Led the 0-to-1 development of high-stakes payment and transaction modules using React and Node.js, ensuring strict data validation and transactional integrity for sensitive customer data.
- Orchestrated full-stack integrations with third-party payment gateways, analyzing data flow and evaluating key performance factors to increase successful processing rates by 25%.
- Accelerated enterprise-wide development velocity by architecting a library of framework-agnostic web components using Stencil JS and Storybook, serving as a core foundation for the company-wide design system.

- Developed B2B web solutions for vaccine appointments, building secure, HIPAA-compliant Angular interfaces adopted by enterprise partners to manage high-volume patient intake.
- Spearheaded WCAG compliance initiative to reduce 90% of A11y defects of all severities for improved user accessibility. Successfully completed this burn-down endeavor within 8 weeks of receiving DOJ reports and directives.
- Served as Security Maven for the payments frontend group, automating security audits by integrating Checkmarx scans into Github Actions to mitigate code and package vulnerabilities.

Merkle

April 2021 – May 2022

Web Engineer

- Architected a centralized Admin Portal, designing normalized MySQL schemas and implementing an Express.js backend to unify authentication and streamline complex internal workflows.
- Developed React single page applications for marketing dashboards, following white label models for reproducibility across 20+ Fortune 500 companies.
- Led a critical data migration from DynamoDB to AWS RDS, engineering a custom Node.js ETL pipeline that preserved data integrity while transitioning from NoSQL to a relational schema.
- Streamlined backend service discovery by building a Node.js-based routing abstraction; utilized middleware to handle complex request-response lifecycles, ensuring secure and efficient data retrieval across hybrid environments.
- Engineered robust Node.js security strategies, including CSRF protection and request validation, to secure internal systems against vulnerabilities while managing high-volume data requests.
- Revamped the frontend E2E testing suite by integrating Cypress for full test coverage across all SPAs; implemented CI/CD checks in Bitbucket Pipelines to automate unit, integration, and linting tests.

EDUCATION

Bachelor of Mechanical Engineering - *Cum Laude Honors*

Minor in Computer Science, The City College of New York – Manhattan, NY