Yousef Farge

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EDUCATION

Northwestern University — Evanston, IL
Bachelor of Arts and Sciences in Computer Science — *September 2019 – June 2023*
Cumulative GPA: 3.64/4.0
Relevant Coursework: Algorithms, Databases, Web Development, Agile Software Development, Artificial Intelligence

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, C++, Rust, HTML, CSS, SQL (Postgres)
Frameworks & Libraries: React, Vite, Flask, Next.js, Tailwind
Cloud & Infrastructure: Amazon Web Services (Lambda, S3, EC2, RDS), Docker, Redis, GitHub Actions
Developer Tools: Git, Linux, Sentry, Jest, Vitest, Stripe

EXPERIENCE

Founding Software Engineer — July 2023 – July 2024
Flare Financial Systems — *Chicago, IL*

- Engineered a RESTful API for streamlined management of payment approval requests using Stripe APIs and Webhooks, allowing seamless submission that reduced processing time by 40% across user transactions
- Designed and deployed a fully customizable payment link feature utilizing Stripe APIs and Next.js, enabling users to create branded links that collectively processed transactions exceeding $25,000 within the first month
- Devised a solution to integrate receipt attachments and custom metadata mappings into financial transactions via a RESTful API, improving data consistency and eliminating hundreds of hours of manual entry per month
- Deployed application-level caching using TanStack Query, resulting in a 30% decrease in server load while enhancing perceived user response time for seamless interactions
- Built a payments interface using Next.js, Node.js, and PostgreSQL with advanced filtering options, optimizing transaction management for over $1 million in processed transactions

Software Engineer Intern — June 2022 – September 2022
Flare Financial Systems — *Chicago, IL*

- Directed comprehensive user testing for the financial dashboard feature, collecting valuable feedback from 10 active organizations to drive critical enhancements in both design and functionality of the interface
- Converted Figma designs into a financial reporting dashboard in ReactJS, integrating QuickBooks data and using ChartJS for interactive visualizations to track monthly revenue
- Developed a back-end web service with Node.js and AWS Cognito to manage user authentication resulting in secure identity management and access control

PROJECTS

Email Newsletter | *Rust, PostgreSQL, Redis, Docker*

- Created an efficient backend solution to facilitate secure user authentication processes using session cookies while storing active sessions within a Redis cache for rapid session retrieval
- Established an email system that eliminated duplicate emails using idempotent keys, an asynchronous PostgreSQL queue, and background workers—achieving 100% elimination
- Deployed automated integration and unit testing workflows utilizing GitHub Actions, achieving 90% test coverage and reducing software regressions, resulting in improved software stability

Photo App | *Python, JavaScript, HTML, CSS, PostgreSQL, Flask, SQL Alchemy*

- Composed a RESTful API using Flask and SQLAlchemy, seamlessly facilitating data interactions for the front-end while delivering an efficient response time of under 300 milliseconds across all endpoints
- Architected a secure user authentication strategy utilizing JWT for stateless API access and a PostgreSQL database that safely stored user secrets as one-way salted hashes to safeguard sensitive data
- Implemented granular authorization controls on each API endpoint via custom middleware, restricting access to sensitive operations and enhancing data security