Yousef Farge

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EDUCATION

Northwestern University   Evanston, IL
Bachelor of Arts in Computer Science   *September 2019 – June 2023*
GPA: 3.64 / 4.00
Relevant Coursework: Introduction to Web Development, Introduction to Databases, Data Structures and Algorithms, Design and Analysis of Algorithms, Agile Software Development, Rapid Prototyping, Interactive Information Visualization, Introduction to Artificial Intelligence

EXPERIENCE

Founding Software Engineer   July 2023 – July 2024
Flare Financial Systems   *Remote*
- Developed a RESTful API for managing dynamic payment approval requests using Stripe APIs and Webhooks, leveraging Node.js and PostgreSQL to enable users to submit payment requests seamlessly to their stakeholders
- Led the development of a payment link creation feature leveraging Stripe APIs and Next.js, resulting in over $25000 dollars of funds raised by users
- Designed and implemented a RESTful API to enable receipt attachments and custom metadata mappings for financial transactions, allowing users to sync their in application transactions with their accounting systems, reducing manual entry time and ensuring consistency between systems
- Implemented application-level caching with Tanstack Query, reducing server load and improving perceived user response time for a smoother user experience
- Implemented a payments view with advanced filtering, sorting, and pagination features using Next.js, Node.js, and PostgreSQL, enabling users to efficiently reconcile money movement and manage transactions

Software Engineer Intern   June 2022 – September 2022
Flare Financial Systems   *Chicago, IL*
- Developed a back-end web service with Node.js and AWS Cognito to manage user authentication resulting in secure identity management and access control
- Led user testing for the financial dashboard feature, gathering feedback from active users to inform iterative improvements on feature design and implementation
- Implemented Figma designs for a financial reporting dashboard in ReactJS, ingesting data pulled from QuickBooks and visualizing it with dynamic charts and tables using ChartJS for enhanced user insights

PROJECTS

Instagram Clone | *JavaScript, HTML, CSS, PostgreSQL, Flask, SQL Alchemy*
- Developed a RESTful API with Flask and SQLAlchemy for reading and writing to the database, efficiently hydrating the front-end
- Implemented user authentication to gate API access, where passwords were stored as one-way salted hashes, ensuring secure login and data privacy
- Added endpoint-specific authorization logic to control user permissions for viewing and modifying data

Huddle Up | *JavaScript, React, Firebase Real Time Database, React Bootstrap*
- Developed a web application for finding on-campus sporting events using ReactJS with vanilla JavaScript for the front-end
- Integrated Firebase's RealTime Database for backend storage, enabling real-time data synchronization and event updates

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, HTML, CSS, SQL (Postgres)
Technologies: React, Next.js, Node.js, Stripe, Flask, Jest, Tailwind, Sentry
Developer Tools: Git, Docker, Amazon Web Services, Google Cloud Platform