Samuel Ou

samuelou510@gmail.com | linkedin.com/in/samuel-ou-0510s/ | github.com/ousamuel

EDUCATION

Flatiron School   Manhattan, NY
Full Stack Software Development   *Jun. 2023 – Sep. 2023*

Stony Brook University   Stony Brook, NY
Bachelor of Science in Biology   *Aug. 2019 – May 2023*

PROJECTS

E-Commerce | *TypeScript, React, AWS Lambda/Cognito, DynamoDB*   Jan 2024 – Present
- Developed an e-commerce platform to streamline existing business operations to improve customer engagement
- Implemented end-to-end features, ensuring web and mobile-friendly experience
- Optimized cloud infrastructure on AWS, incorporating server-less architecture with AWS Lambda
- Designed and tested software solutions to satisfy customer platform needs

CashTrack | *TypeScript, React, Node/Express, MongoDB*   Nov 2023 – Jan 2024
- Developed an expense-sharing application that simplifies group finances
- Established data models with MongoDB through Mongoose ORM, incorporating referenced relationships
- Developed RESTful API endpoints using Express.js for management of users, groups, and expenses
- Implemented user authentication and session management using express-session and bcrypt

Auto Service/Commerce | *React, Next, Python, Flask, Stripe*   Oct. 2023 – Nov. 2023
- Spearheaded a full-stack application providing scheduled car servicing and anonymous bidding
- Optimized table components for teammates, reducing front-end development time by 20%
- Developed RESTful API endpoints using Flask, enabling user management and authentication
- Led code reviews and standup to discuss challenges and weekly agendas

SteelStance | *React, Next, Python, Flask*   Sep. 2023 – Oct. 2023
- Developed a fitness application managing workout programs and personal records
- Utilized SQLAlchemy ORM to interact with the database, ensuring data integrity and efficient storage
- Delivered dynamic sorting algorithm of records in table components
- Integrated server-side routing for smooth user experience

Discord/Pinterest Clone | *JavaScript, React, Reddit API*   Aug. 2023 – Sep. 2023
- Developed a social media platform allowing users to traverse different communities and view related posts
- Utilized React hooks for state management across different components
- Implemented custom styling and design for the user interface

Subreddit Clone | *JavaScript, React, Reddit API*   Jul. 2023 – Aug. 2023
- Developed a single-page application allowing users to view and interact with beer-related posts
- Implemented CRUD functionality for dynamic post rendering of API data
- Developed sorting and saving options for enhanced user experience

CERTIFICATIONS

SWE Virtual Experience, SWE Lite Simulation | *JPMC*   Jan 2024
- Fixed broken files in the repository to make web application output correctly
- Used JPMorgan Chase's open source library Perspective to generate a live graph that displays a data feed for monitoring purposes
- Completed an engineering ticket in the credit rewards department to create new classes and test suites in Java

Backend Engineering Simulation | *Lyft*   Jan 2024
- Drafted a UML class diagram representing a new reorganized architecture
- Refactored a codebase inherited from another team and implemented new functionality with respective unit tests via test-driven development

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, HTML/CSS
Frameworks: React, Next.js, Node, Express, Flask, Tailwind
Developer Tools: Open Source, UML, JUnit, Unit Testing, Git, SQL/NoSQL, MongoDB