Samuel Ou

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

EDUCATION

Flatiron School   Manhattan, NY
Full Stack Software Development   *2023*

Stony Brook University   Stony Brook, NY
Bachelor of Science in Biology   *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

PROFESSIONAL EXPERIENCE

Undergraduate TA | *Statistics, Chemistry*   Jan 2021/2023
- Provided one-on-one guidance and academic support to students, clarifying concepts, and offering personalized feedback on assignments and exams
- Facilitated group discussions and addressed questions to enhance students' understanding of course material

EMT Assistant Instructor   Dec 2022
- Mentored and coached trainees through hands-on instruction, providing guidance on medical procedures, patient care protocols, and emergency response techniques

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, HTML/CSS
Frameworks: React, Next.js, Node, Express, Flask, Tailwind
Developer Tools: PostgreSQL, MySQL, SQLite, SQLAlchemy, MongoDB, Unit Testing, Git, JSON