

Samuel Ou

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EDUCATION

Flatiron School

Full Stack Software Development

Manhattan, NY

2023

Stony Brook University

Bachelor of Science in Biology

Stony Brook, NY

2019 - 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

LEADERSHIP

Undergraduate TA | *Statistics, Chemistry*

Jan 2021 - May 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

Mar 2022 - 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