Samuel Ou

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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

TriviaBurst | *TypeScript, Angular, Node, Express, MongoDB* — Dec 2023 – Present
- Developed a trivia application that provides interactive quizzes and real-time scoring
- Leveraged Angular Material to fast track front end development
- Established data models with MongoDB, incorporating referenced relationships and RESTful endpoints
- Utilized Angular Forms for seamless form validation and management

CashTrack | *TypeScript, React Hooks, Node, Express, MongoDB, Socket.IO* — Nov 2023 – Present
- Developed an expense-sharing application that simplifies group finances
- Leveraged React Hooks for state and form management
- Established data models with MongoDB, incorporating referenced relationships and RESTful endpoints
- Utilized Socket.IO for real-time communication between group members

Auto Shop | *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 backend RESTful API with full CRUD for data management
- 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
- Employed SQLAlchemy to establish table relations/relational objects and optimized database queries
- 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's hook 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

WORK EXPERIENCE

EMT | *Ambulnz* — Feb. 2022 – Dec. 2022
- Delivered basic life support and transportation for emergent and non-emergent patients
- Demonstrated critical thinking and swift decision-making in high-pressure situations

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, HTML/CSS
Frameworks: React, Next, Node, Express, Flask, Tailwind
Developer Tools: VS Code, Git, MySQL, MongoDB