

# Samuel Ou

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## EDUCATION

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### Flatiron School

*Full Stack Software Development*

Manhattan, NY

*Jun. 2023 – Sep. 2023*

### Stony Brook University

*Bachelor of Science in Biology*

Stony Brook, NY

*Aug. 2019 – May 2023*

## PROJECTS

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### 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 – Jan 2024

- 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 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 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

## CERTIFICATIONS

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### 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 called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor
- 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

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**Languages:** JavaScript, TypeScript, Python, Java, HTML/CSS

**Frameworks:** React, Next, Node, Express, Flask, Tailwind

**Developer Tools:** Open Source, UML, JUnit, Unit Testing, Git, MySQL, MongoDB