Samuel Ou

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EDUCATION

Flatiron School — Manhattan, NY
Software Engineering Bootcamp — *2023*

Stony Brook University — Stony Brook, NY
Bachelor of Science in Biology — *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
- Managed end-to-end features, ensuring web and mobile-friendly experience to boost user traffic
- Improved scalability and reduced operational costs by incorporating server-less architecture
- 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
- Optimized data architecture by establishing efficient data models through Mongoose ORM
- Improved management efficiency for data models by reducing API response times by 40%
- Implemented robust authentication and session management, resulting in decrease in unauthorized access

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 endpoints using Flask, enabling user management and authentication
- Fostered collaboration and improved code quality by leading code reviews and standups

SteelStance | *React, Next, Python, Flask* — Sep. 2023 – Oct. 2023
- Developed a fitness application managing workout programs and personal records
- Ensured data integrity and optimized storage efficiency, reducing data retrieval time by 30%
- Improved data accessibility by implementing custom sorting algorithm of records in table components
- Integrated server-side routing for seamless and responsive 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
- Improved state management and component efficiency to streamline code maintenance efficiently
- Enhanced the user interface by implementing custom styling and design

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
- Enhanced data management and interactivity by implementing CRUD functionality for data rendering
- 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, helping students gain a better understanding of concepts on assignments and exams
- Facilitated group discussions and addressed questions to enhance students' understanding of course material

EMT Assistant Instructor — Mar 2022 - Dec 2022
- Provided hands-on mentoring and coaching to trainees, offering expert guidance on medical procedures, patient care protocols, and emergency response techniques to ensure comprehensive skill development

TECHNICAL SKILLS

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