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 — *2023*

EXPERIENCE

Software Engineering Fellow — Jul 2024 – Present
Headstarter AI — *Remote*
- Built 5+ AI apps using NextJS, OpenAI, Pinecone, StripeAPI with 98% model accuracy, verified by 1000+ users
- Developed projects from design to deployment leading other engineering fellows using MVC design patterns
- Coached by Amazon, Bloomberg, and Capital One engineers on Agile, CI/CD, Git, and microservice patterns

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, NodeJS, ExpressJS, 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

SteelStance | *React, Next, Python, Flask, SQLite* — Oct 2023 – Nov 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

Auto Service/Commerce | *React, Next, Python, Flask, SQLite* — Sep 2023 – Oct 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

Reddit Clone | *JavaScript, React, Reddit API, Local JSON* — 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
- Provided frequent feedback and fostered open communication with students

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, HTML, CSS
Frameworks: React, NextJS, Node, Express, Flask, Tailwind
Developer Tools: REST, PostgreSQL, MySQL, SQLite, SQL Alchemy, MongoDB, Mongoose, Git, JSON