Samuel Ou

samuelou510@gmail.com | linkedin.com/in/samuel-ou-0510s | github.com/ousamuel | portfolio

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, SQL, HTML, CSS

Frameworks and Libraries: React, NextJS, Django, Flask, Mongoose, SQL Alchemy, Node, Express, Tailwind Databases and Developer Tools: AWS, Excel, Google Analytics, Firebase, PostgreSQL, MongoDB, Git, JUnit

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
- Led the development of AI-powered websites from design to deployment using MVC design pattern
- Coached by Amazon, Bloomberg, and Capital One engineers on Agile, CI/CD, Git, and microservice patterns

Projects

MySafety | TypeScript, React, NextJS, Firebase

Jul 2024 - Aug 2024

- Spearheaded front end development and optimized user interface with responsive design
- Utilized Firebase for seamless user authentication and tracking user analytics
- Leveraged third-party APIs to integrate real-time location-based data to improve app reliability
- Implemented secure API calls to fetch and display critical safety information, ensuring data integrity

E-Commerce | TypeScript, React, AWS, DynamoDB

Jan 2024 - Present

- Utilized AWS Cognito for secure user authentication and DynamoDB for scalable database management
- Implemented responsive web design to provide seamless user experience across all screen sizes
- Improved scalability and reduced operational costs through serverless computing with AWS Lambda
- Conducted end-to-end testing with AWS Appsync to secure payment gateways and protect user data

<u>CashTrack</u> | TypeScript, React, NodeJS, ExpressJS, MongoDB

Nov 2023 - Jan 2024

- Created an intuitive dashboard to track expenses and visualize financial data
- Reduced data retrieval time and app performance by 40% by designing optimized schema
- Implemented login with secure authentication and session management with Express-Session
- Leveraged schema flexibility in MongoDB to handle complex relationships and nested documents

SteelStance | React, NextJS, Python, Flask, SQLite, SQL Alchemy

 $Oct\ 2023-Nov\ 2023$

- Designed and implemented RESTful APIs using Flask to handle user authentication and record management
- Ensured data integrity by validating relationships and constraints between users and records
- Improved performance by implementing custom sorting algorithm of records in table components
- Optimized queries with SQL Alchemy, leveraging in-memory storage for increased speed

Auto Service | React, NextJS, Python, Flask, SQLite, SQL Alchemy

Sep 2023 – Oct 2023

- Refactored table components by reducing clutter by 30% and using semantic HTML elements
- Created unit and integration tests to prevent conflicting user appointments and market bids
- Styled reusable components using Tailwind, adhering to ADA compliance
- Led code reviews and standups, fostering collaboration and improving code quality

Reddit Clone | JavaScript, React, Reddit API

Jul 2023 - Aug 2023

- Developed a dynamic voting system to promote user engagement and provide real-time feedback
- Implemented custom quick sort for simultaneous UI updates and sorting posts by time and popularity
- Designed a submission form with custom form validation to allow users to share new content

EDUCATION

Flatiron School

Manhattan, NY

Software Engineering Bootcamp

2023

Stony Brook University

Stony Brook, NY

Bachelor of Science in Biology

2023