Yuchen (Abi) Liu

510-621-8654 | abiliu018@gmail.com | linkedin.com/in/abiliu | github.com/Abi-Liu

OPEN-SOURCE CONTRIBUTIONS

Medplum github.com/medplum/medplum | **PR 1** | **PR 2** — Open Source

Healthcare Developer Platform — *July 2023 - Present*

- Enhanced Medplum's batch upload tool, allowing users to upload multiple FHIR bundle resources simultaneously, improving efficiency and usability.
- Implemented separate output tabs for each uploaded file, providing a clearer view of the uploaded data and streamlining the data management process.
- Introduced a copy button for resource IDs, improving the developer's workflow and making essential information more accessible.
- Technologies: TypeScript, React, Mantine UI.

PROJECTS

BudgetBuddy — November 2023 – Jan 2024

TypeScript, React, Node, Express, Docker, Nginx, PostgresSQL, Redis, Websockets, Git, AWS

- Integrated the Plaid API to enable users to connect and manage multiple bank and credit card accounts.
- Built and designed a budgeting system and networth tracker for spending visualization and networth tracking.
- Utilized websockets to give users real time notifications for new transaction data.
- Containerized the application using Docker, streamlining deployment processes, enhancing scalability, and ensuring consistency across various environments.
- Implemented Nginx as a reverse proxy to perform load balancing across servers.
- Live Site: bbapi.online | GitHub: github.com/Abi-Liu/Spendify

ToyScript | *JavaScript, Jest, Git* — September 2023 – November 2023

- Designed and implemented a custom programming language from scratch to deepen my understanding of how languages work.
- Developed a custom lexer and parser using the Pratt parsing technique and a recursive descent parser, enabling the language to recognize a wide range of syntax and expressions.
- Built an Abstract Syntax Tree interpreter, enabling code execution and evaluation.
- Created an environment system, supporting variable declarations, assignments, and scoping rules.
- Developed a comprehensive test suite for the language to ensure its correctness and reliability.
- GitHub: github.com/Abi-Liu/ToyScript | Medium Article: medium.com/@abiliu018

Valorant Finder | *TypeScript, Node.js, Express, MongoDB, React, Jest, Git* — June 2023 – August 2023

- Developed a full-stack web application using with Node.js serving a REST API with React as the frontend.
- Reduced loading times by up to 100% by implementing a caching system for match and profile data.
- Implemented Unit testing with Jest and Supertest to enhance endpoint robustness and reliability.
- Used MaterialUI to build an intuitive and visually appealing interface on all screen sizes.
- Implemented Local Auth for account creation
- Live Site: valorantfinder.netlify.app | GitHub: github.com/Abi-Liu/Valorant-Team-Finder

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, HTML/CSS
Frameworks: React, Node.js, Express.js, Redux, Jest
Developer Tools: Git, Docker, Nginx, AWS, Unit Testing, Postman
Databases: PostgreSQL, MySQL, MongoDB, Redis

EDUCATION

100Devs — Remote

Full Stack Software Development Program — *June. 2022 – June 2023*

University of California - Santa Cruz — Santa Cruz, CA

Bachelor of Arts in Business Management Economics — *September 2018 – December 2022*