Yuchen (Abi) Liu

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OPEN-SOURCE CONTRIBUTIONS

Medplum github.com/medplum/medplum | PR 1 | PR 2   Open Source
Healthcare Developer Platform

- 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, AWS, Git

- Saved users 1 hour weekly by itegrating the Plaid API for easy management of multiple financial accounts.
- Containerized the application with Docker, streamlining deployments, and ensuring consistency across various environments.
- Slashed deployment times by 75% using a CI/CD pipeline to automate deployments to an AWS EC2 instance.
- 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

- Developed a custom lexer and parser using a recursive descent parser approach, 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

- Improved loading times by up to 300% through implementing a caching system for match and profile data.
- Fortified the API endpoints with a robust test suite using Jest
- Used MaterialUI to build an intuitive and visually appealing interface on all screen sizes.
- 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*