

Yuchen (Abi) Liu

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EXPERIENCE

Software Engineer

Mar 2024 – Present

One Community Global

Remote

- Showcasing organizational growth metrics to investors via dynamic data visualizations and efficient data aggregation pipelines with MongoDB
- Reducing production-breaking bugs by creating robust unit and integration test suites with Jest for server routes and controllers
- Increasing team efficiency by mentoring teammates through peer programming sessions, resolving complex issues, and enhancing their skills.
- Maintaining a high-quality codebase by conducting in-depth code reviews to identify bugs before making it to production

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

TextTunnel | *Golang, PostgreSQL, Websockets, Docker, Bubbletea, Google Cloud Platform, Git*

- Built a real-time chat application based in the terminal
- Utilized goroutines and channels to efficiently manage multiple users and messages concurrently
- Reduced deployment times by 75% by containerizing the application with Docker and implementing a CI/CD pipeline to automate deployments to the Google Cloud Platform
- Developed an intuitive terminal user interface (TUI) using the Bubble Tea framework for enhanced user interaction and experience.
- GitHub: github.com/Abi-Liu/TextTunnel

ToyScript | *JavaScript, Jest, Git*

- 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

TECHNICAL SKILLS

Languages: Golang, Java, TypeScript, JavaScript, HTML/CSS

Frameworks: Express.js, Spring, JPA, JDBC, React, Node.js, Jest

Developer Tools: Git, Docker, AWS, Github Actions, 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