

# Yuchen (Abi) Liu

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## EXPERIENCE

### Software Engineer

Mar 2024 – Present

*One Community Global*

*Remote*

- Reducing production-breaking bugs by creating robust unit and integration test suites for server routes and controllers
- Developing dynamic data visualizations to communicate organizational growth metrics to investors
- Increasing team efficiency by mentoring teammates through peer programming sessions, resolving complex issues, and enhancing their skills.
- Conducting thorough code reviews to identify bugs, ensuring a high-quality code base

## OPEN-SOURCE CONTRIBUTIONS

### Medplum [github.com/medplum/medplum](https://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 – Present

*TypeScript, React, Node, Express, Docker, Nginx, PostgreSQL, Redis, Websockets, AWS, Git*

- Saved users up to 1 hour weekly by integrating 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% creating 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](https://bbapi.online) | GitHub: [github.com/Abi-Liu/Spendify](https://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](https://github.com/Abi-Liu/ToyScript) | Medium Article: [medium.com/@abiliu018](https://medium.com/@abiliu018)

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, HTML/CSS

**Frameworks:** React, Node.js, Express.js, Redux, Jest

**Developer Tools:** Git, Docker, Nginx, 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*