Yuchen (Abi) Liu

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TECHNICAL SKILLS

Languages: TypeScript, JavaScript, HTML/CSS

Frameworks: React, Node.js, Express.js, MongoDB, Mongoose, MaterialUI, Bootstrap, MantineUi

Developer Tools: Git, Unit Testing (Jest), VS Code, Postman

Miscellaneous: Netlify, Render, Object Oriented Programing (OOP), Agile Methodology, Node Package Manager

(NPM)

OPEN-SOURCE CONTRIBUTIONS

Medplum github.com/medplum/medplum

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 used: TypeScript, React, Mantine UI.

PROJECTS

ToyScript | JavaScript, Jest, Git

September 2023 – Present

- Designed and implemented a custom programming language from scratch.
- Developed a custom lexer and parser, enabling the language to recognize a wide range of syntax and expressions.
- Built an Abstract Syntax Tree (AST) 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
- GitHub: github.com/Abi-Liu/Valorant-Team-Finder

FinanceMe | JavaScript, Node.js, Express, MongoDB, React, Git

March 2023 – April 2023

- Integrated the Plaid API's to enable users to connect and manage multiple bank and credit card accounts.
- Categorized and displayed transactions with Material Table to enhance user understanding of spending habits.
- Built UI with MaterialUI and incorporated the Google Charts API for data visualization and financial reporting.
- Implemented Google OAuth for account creation.
- GitHub: github.com/Abi-Liu/Finance-Me

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