

AARON POLLOCK

FULL-STACK SOFTWARE ENGINEER

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Technical Skills: Python | JavaScript | Express.js | Node.js | TypeScript | Flask | Expo | Django | ReactJS | React Native | Redux | Sequelize | SQL Alchemy | PostgreSQL | GraphQL | HTML | CSS | GitHub | Docker | Amazon Web Services

VOLUNTEER EXPERIENCE

ENGINEERING TEAM MEMBER | *Better Angels LA*

October 2024 – Present

- Collaborates on the development of a mobile application using Expo, React Native, and TypeScript, contributing to the creation of dynamic and user-friendly screens and features.
- Assists in the backend implementation, leveraging a Django monolith with Django REST Framework (DRF) and Strawberry GraphQL to support robust API functionality.

PROJECT EXPERIENCE

NOTE2BE | Python | Flask | React | Redux | SQL Alchemy

[GitHub](#) \ [Live](#)

- Engineered a dynamic and responsive user interface with React, integrated with Redux for global state management, ensuring a seamless note-taking experience across all user actions.
- Implemented an ORM using SQLAlchemy to streamline complex database interactions, including migrations and relationships, between users, notes, and tags across Flask-based APIs.
- Designed and optimized database schemas and queries using PostgreSQL to handle large-scale data for storing user notes, tags, and media efficiently in a production environment.
- Integrated Quill.js as a rich text editor, enabling users to format notes for a fully customizable note-taking experience.

GETSY | Python | Flask | React | Redux | SQL Alchemy | AWS S3

[GitHub](#) \ [Live](#)

- Coordinated with a distributed team using Git feature branches and Scrum methodologies to ensure effective version control, code reviews, and sprint-based task management.
- Configured AWS S3 to securely store and retrieve user-uploaded files, ensuring scalable and persistent storage for media and document attachments.
- Leveraged SQLite3 for local development environments to ensure fast, lightweight, and reliable database operations during testing and initial development stages.

SYNCUP | Node.js | Express.js | JavaScript | React | Redux | Sequelize

[GitHub](#) \ [Live](#)

- Constructed RESTful APIs using Node.js and Express.js to manage user authentication, uploads, and complex data relationships between users, groups, and events while adhering to secure, scalable backend design patterns.
- Developed role-based access control (RBAC) and JWT authentication for stateless sessions and bcrypt hashing for passwords, enhancing security by preventing plain text password storage.

WORK EXPERIENCE

TUTOR & CURRICULUM MANAGEMENT | *Elite Prep*

June 2010 – August 2023

- Provided personalized instruction across multiple disciplines, delivering tailored tutoring in reading, writing, and math for 7th-grade students, as well as advanced summer prep courses in Precalculus and Calculus (AB & BC).
- Directed a nonprofit after-school SAT program, crafting curriculum and counseling diverse students on higher education opportunities, admissions strategies, mindfulness, and test-taking.

EDUCATION

App Academy \ Full-Stack Web Development

Completed Fall 2024

Mindful Schools \ Mindfulness Certification Teaching Program

Completed Fall 2021

University of Southern California \ Cinematic Writing, BFA w/ Philosophy Minor

Completed Spring 2004