

AARON I. POLLOCK

FULL STACK SOFTWARE ENGINEER

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Summary: Full-stack engineer who brings structure to ambiguous problems and delivers production-ready solutions. Shipped Low-sAI as a public demo and unified modal UX in Better Angels' RN app.

Technical Skills: JavaScript/TypeScript | React | React Native (Expo) | HTML/CSS (Tailwind) | Node.js/Express | PostgreSQL/MongoDB | REST/GraphQL | Python (Flask/Django) | SQLAlchemy/Sequelize | AWS (S3) | Docker | Git/GitHub

VOLUNTEER EXPERIENCE

ENGINEERING TEAM MEMBER | *Better Angels LA*

October 2024 – Present

- Contributes to a mobile app using React Native, Expo, and TypeScript, building dynamic, user-friendly features.
- Supports backend logic via a Django monolith with DRF and Strawberry GraphQL for RESTful API functionality.
- Collaborates in a monorepo build system to enable scalable, maintainable code across frontend and backend.
- Introduced a reusable Expo Router + Context modal system, replacing **react-native-modal**, fixing scroll/stacking issues.

PROJECT EXPERIENCE

LOW-sAI | Stability AI | JavaScript | MongoDB | Express | React | Node.js

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

- Integrated Stability AI for prompt-to-image generation behind a clean service interface.
- Architected a React + Tailwind SPA with accessible components and predictable error/loading states.
- Optimized MongoDB schemas and an image pipeline with pagination and lazy loading for large payloads.
- Productionized on Render + Atlas, with JWT/refresh + CSRF, input validation, rate limiting, and SEO scaffolding.

NOTE2BE | Python | Flask | SQLAlchemy | PostgreSQL | React | Redux

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

- Engineered a responsive React UI with Redux state, delivering a seamless note-taking experience across actions.
- Implemented SQLAlchemy ORM for Flask APIs, streamlining migrations and user-note-tag relationships.
- Designed PostgreSQL schemas and queries for large-scale notes/tags/media, ensuring efficient production performance.
- Incorporated Quill.js as a rich text editor, enabling users to format notes for a fully customizable note-taking experience.

GETSY | Python | Flask | SQLAlchemy | AWS S3 | React | Redux

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

- Coordinated distributed team via Git branches & Scrum, enabling version control, code reviews, and sprint execution.
- Configured AWS S3 for secure, scalable storage and retrieval of user-uploaded media and documents.
- Leveraged SQLite3 locally for fast, lightweight, reliable database ops in testing and initial development.

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

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

- Built RESTful APIs in Node.js/Express for auth, uploads and user-group-event relations using secure, scalable patterns.
- Developed RBAC and JWT auth for stateless sessions, with bcrypt password hashing to strengthen security.

WORK EXPERIENCE

TUTOR & CURRICULUM MANAGEMENT | *Elite Prep*

June 2010 – August 2023

- Delivered multi-subject tutoring (7th-grade reading/writing/math; advanced Precalculus/Calculus AB & BC) and directed a nonprofit after-school SAT program, developing curriculum and providing college-admissions, mindfulness, and test-taking coaching.

EDUCATION

App Academy \ Full-Stack Web Development

Completed Fall 2024

University of Southern California \ Cinematic Writing, BFA with Philosophy Minor

Completed Spring 2004