Aaron Pollock
FULL STACK SOFTWARE ENGINEER

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Background in education and entertainment. Proven ability to create complex projects showcasing a blend of technical expertise and visual storytelling. Strong problem-solving skills, patience, and empathy.

Technical Skills: JavaScript **|** Python **|** Flask **|** Express **|** ReactJS **|** Redux **|** SQL Alchemy

Relevant Skills: Final Cut Pro **|** Avid Media Composer **|** Curriculum Development **|** Client Management **|** Research Skills

PROJECT EXPERIENCE

NOTE2BE | Pythonl **|** Flask **|** Raact **|** 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.
- Developed RESTful APIs using Flask to manage user authentication, note management, and file uploads while adhering to secure, scalable backend design patterns.
- Integrated Quill.js as a rich text editor within the note creation interface, enabling users to format notes with bold, italics, lists, and more for a fully customizable note-taking experience.
- 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.

GETSY | Python **|** Flask **|** React **|** Redux **|** SQL Alchemy **|** AWS S3   **GitHub** \ **Live**
- Collaborated in 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.
- Crafted wireframes and incorporated responsive front-end design using HTML and CSS, ensuring the application maintained a cohesive and intuitive user experience across devices.
- Built a secure custom authentication system using JWT for stateless sessions and bcrypt hashing for passwords, enhancing security by preventing plain text password storage.

WORK EXPERIENCE

HEY TUTOR | *Personal Homeschool Instructor* **|** Los Angeles, CA   **Aug 2021 – Aug 2023**
- Facilitated the accelerated progression of a 16-year-old student through a predetermined course curriculum (Acellus Learning Accelerator) from 9th to 12th grade across disciplines

DATA FOR CHILDREN | *Tutor* **|** San Gabriel, CA   **June 2021 – Aug 2023**
- Instructed 7th-grade students on the fundamentals and nuances of reading, writing, and math in classroom settings
- Prepared individual summer students for Precalc, Calc AB, Calc BC
- Provided academic support for above subjects throughout the school year

ARCADIA UNIFIED SCHOOL DISTRICT | *Avid Liaison and Tutor* **|** Arcadia, CA   **Sep 2016 – June 2021**
- Coordinated communication between Elite Educational Institute and AUSD
- Trained new instructors in SAT prep and the AVID method of teaching
- Managed schedules, questions, and concerns of fellow tutors

ELITE COMMUNITY SCHOLARS | *SIte Director* | Silver Lake, CA   **Sep 2013 – June 2021**

- Organized and operated nonprofit after-school SAT program
- Counseled students of diverse backgrounds on their pursuit of higher education

ELITE EDUCATIONAL INSTITUTE | *Tutor* | Arcadia, CA   **June 2010 – August 2023**

- Imparted acquired knowledge of specific test-taking skills and strategies
- Inspired, guided, and edited the writing of personal statements that aid admittance to top public, private, and Ivy League colleges and universities
- Developed material and curriculum for mindfulness classes designed to help students cope with test anxiety.

EDUCATION

App Academy \ Full Stack Web Development   **Completed 08/2024**

- Computer Science, Web Development, Front-End Engineering, Back-End Engineering

Mindful Schools \ Mindfulness Certification Teaching Program   **Completed 08/2021**

- Trained to teach mindfulness to students K-12

University of Southern California \ *Cinematic Writing, BFA* **|** Los Angeles, CA   **2004**

- Minor in *Philosophy*
- Graduated *cum laude*
- Presidential Scholarship, 2000-2004
- California Byrd Scholarship, 2000-2004