Tristan Allaman
Software Engineer

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SUMMARY

Drawing from a robust background in Biology and hands-on experience as an EMT, I transitioned into the dynamic, ever-evolving field of software engineering driven by a committed passion for technology, innovation and problem-solving. During my training at App Academy, I created full-stack applications leveraging JavaScript, Python, React, Redux, Express, Sequelize, Flask and PostgreSQL. With my unique background in healthcare and science combined with the technical prowess I have acquired at App Academy, I am excited to contribute and collaborate effectively with teams on future projects.

SKILLS

React, Redux, Javascript, Docker, Python, SQL, SQLite3, PostgreSQL, SQLAlchemy, Sequelize, Git, HTML, CSS, Render, Node.js, Express.js, Flask, Object Oriented Programming, REST, SCRUM, Cloudinary, Data Structures and Algorithms, Pair Programming

PROJECTS

Pledge Palooza (Flask, SQLAlchemy, JavaScript, React, Redux, HTML, AWS and CSS)   [Live Site](#) | [Github](#)
A crowdfunding application in which users can create, like and back projects and receive rewards.
- Utilized Wekzeug's PBKDF2 hashing function on the backend along with JWTs, combined with react auth routes to protect password information and limit access to user-oriented site features.
- Integrated a Flask backend with WTForms along with React frontend validation logic simplifying the process of using forms to ensure smooth user posting permissions
- Employed elaborate css techniques such as Flexbox and Grid to craft a user-friendly interface. Ensured seamless navigation through implementing react components, guaranteeing user satisfaction by creating a dynamic, responsive interface.
- Leveraged Redux for centralized state management, ensuring consistent data flow and smooth updates across the application for an elevated user experience.

Rescue Ready (Javascript, HTML, CSS, React, Redux, Flask, SQLAlchemy, PostgreSQL, Python)   [Live Site](#) | [Github](#)
A flashcard and quiz application for EMT students studying for the NREMT exam
- Engineered the backend using Python and Flask, managing data workflows, user authentication processes and establishing API endpoints to support full-scale CRUD actions.
- Incorporated SQLAlchemy as an ORM for efficient database queries, including functionality such as eager and lazy loading to expedite the user experience and overall performance of the application
- Implemented FlaskWTForms along with react validation logic to enable users to CRUD their own flashcards, flashcard sets and quizzes promising a personalized study experience.
- Designed a responsive search bar using react hooks and advanced array methods that effectively filters flashcards, flashcard sets, and quizzes in real time, encouraging users to find relevant study topics efficiently.

EXPERIENCE

Inspire Diagnostics, *EMT* - Santa Cruz, CA   March 2022 - March 2023
- Performed Covid testing and facilitated vaccination procedures at multiple locations in the Santa Cruz and Watsonville area
- Worked effectively with a close team to ensure patient satisfaction, including helping with patient registration, Ensured all guests were aided and treated fairly, that tests were conducted with the highest degree of accuracy and that the team maintained efficient work flow
- Assisted Vaccine Clinic as a stand-by EMT, registering patients each time for their vaccine and ready to administer EPI/CPR in case of emergency or an adverse reaction to the vaccination within 15 minutes.

Central Coast Ambulance, *EMT* -Santa Cruz, CA   September 2021 - April 2022
- Provided quality patient care by collecting vitals, obtaining medical history and thorough filling out patient care reports
- Safely transported patients from facility to facility by cautiously operating the ambulance
- Examined and evaluated patients to determine appropriate care and course of action

EDUCATION

APP ACADEMY   Part-Time Online   November 2022- November 2023
- A rigorous and immersive full-stack software engineering bootcamp with a <5% acceptance rate. 1000+ hours of full-stack development courses

UC Santa Cruz   Santa Cruz, CA   September 2017- June 2021
- Bachelor Of Arts in Biology, University of California, Santa Cruz