Jack Percival   Software Engineer

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SKILLS   React, Redux, JavaScript, Python, Express, Flask, HTML, CSS, Sequelize, SQLAlchemy, SQL, PostgreSQL, Socket.IO, Git

EXPERIENCE

Software Quality Manager (Security R&D Team) - *Epic Systems*   2016 - 2021
- Managed large scale software development projects for teams of **6+ people**, across the SDLC (software development lifecycle), to ensure deadlines were met, all expected features were implemented, and high quality code was shipped
- Tested software using a variety of techniques, including functional, usability, and **automated** testing, to find bugs and improve overall software quality
- Advised team and fostered **UI / UX** discussions as a **User Experience Coordinator** in order to create beautifully designed, accessible, and intuitive products
- Authored **technical documentation** about software updates to educate customers and increase feature adoption rates
- Mentored new employees via daily Security application training sessions, discussions around business process, and offering general support and expertise, easing the transition into new roles and **decreasing onboarding times**

TECHNICAL PROJECTS

ChihuaWalk (React, Redux, Python, HTML, CSS, Google Maps API, Google Geocoder, Amazon Web Services)   live | github
An AirBnb clone focused on dogs, built with React, Redux, Python, HTML, and CSS
- Incorporated the **Google Geocoder API** to validate user entered addresses and convert them into geo-coordinates to automatically render dog locations on a Google Map for enhanced UI/UX
- Engineered a customizable search feature with **Redux** to allow users to search on a variety of optional characteristics and find results that fit their specific criteria
- Utilized **AWS S3** to implement image uploads to reduce server load and allow for scalability of image services

Discuss (React, Redux, Python, HTML, CSS, Socket.IO)   live | github
A chat-based web application inspired by Discord, built with React, Redux, Python, HTML, and CSS
- Designed the majority of the application with **custom CSS**, including the splash screen, login and sign up pages, server and channel sidebars, and search page, to create a seamless user experience between every page and feature
- Improved performance by organizing the entire application's architecture and structure via **React Router** to reduce loading times, page refreshes, and React component re-renders
- Created an instant chat feature with the **Socket.IO** library to let users send and receive messages in real time

Soccr (React, Redux, Javascript, HTML, CSS)   live | github
A Flickr clone for viewing and uploading soccer related images, built with React, Redux, Javascript, HTML, and CSS
- Connected the **Express** backend to a **PostgreSQL** database, utilizing the **Sequelize** ORM to seamlessly validate data and make database queries
- Implemented custom **React** components to create a single page website with fully dynamic data rendering
- Developed user privacy and autonomy via authentication, **React Router,** and **BCrypt** password hashing, to ensure only authenticated users can modify their photos and comments based on defined user requirements and permissions

Ace API (Javascript, Pug, CSS)   live | github
A website designed for developers to view and organize APIs, built with Javascript, Pug, and CSS
- Constructed the front-end **JavaScript** used in the application to create an interactive user interface with minimal page refreshes
- Decreased server latency and increased loading speeds by instituting custom **SQL** queries to efficiently display / update data
- Leveraged coding best practices to build pages with **Pug** templates, creating dynamic and reusable code throughout the website

EDUCATION

App Academy - *Full Stack Software Development*   2021
- Rigorous 1000-hour full stack software development course with <3% acceptance rate
- Topics include: JavaScript, Python, React, SQL, Test Driven Development (TDD), Object Oriented Programming (OOP), algorithms, data structures, system design patterns, system architecture, and programming best practices

Carleton College - BA Economics | 3.64 GPA   2012 - 2016