Jack Percival

jackpercival7@gmail.com　　　jackpercival.io　　　github.com/JackPercival

SKILLS   Java, JavaScript, Python, React, Redux, Node.js, Express, Flask, HTML, CSS, Sequelize, SQL, PostgreSQL, AWS, Git

EXPERIENCE

Software Development Engineer – Amazon   March 2022 – Present
- Developed a full stack website with React, Redux, and JavaScript, allowing 400+ brands to independently create and manage custom subscription boxes sold on Amazon
- Designed Java APIs used in emailing systems to read and transform data in DynamoDB and S3, resulting in over 50,000 monthly executions and enhanced customer communication regarding upcoming orders
- Created robust CI/CD pipelines by building integration, UI, and load tests, along with custom CloudWatch alarms, leading to a 35% reduction in manual developer interventions
- Owned critical on-call responsibilities by implementing targeted code fixes with AWS technologies to boost operational efficiency and resolve 20+ high priority tickets per shift
- Drove continuous improvement initiatives within the team by actively participating in code reviews and sharing best practices to foster higher code quality and team efficiency

Software Quality Manager – Epic Systems   August 2016 – May 2021
- Managed large scale software development projects for teams of 6+ people, across the SDLC (software development lifecycle) to ensure deadlines were met, all features were implemented, and high quality code was shipped
- Performed functional software testing, assessed usability, and conducted automated testing on software to find and fix bugs
- Advised team as a User Experience Coordinator to create well designed, accessible, and intuitive products
- Mentored new employees and provided daily Security Team training sessions, business process discussions, and general support and expertise, easing the transition into new roles and decreasing onboarding times
- Authored technical documentation about software updates to educate customers and increase feature adoption rates

TECHNICAL PROJECTS

ChihuaWalk   (React, Redux, Python, HTML, CSS, Google Maps API, Google Geocoder, AWS)   live | github
An AirBnb clone that allows users to view and schedule walks with shelter dogs
- 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
- Engineered a customizable search feature with Redux to allow users to search a variety of characteristics to find specific 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, Flask, HTML, CSS, Socket.IO)   live | github
A chat-based web application inspired by Discord
- 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 application's architecture via React Router to reduce loading times, page refreshes, and React component re-renders
- Created an instant chat feature with the Socket.IO library

Soccr   (React, Redux, Express, Javascript, HTML, CSS)   live | github
A Flickr clone for viewing and uploading soccer related images
- Connected the Express backend to a PostgreSQL database, using the Sequelize ORM to 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 using 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

EDUCATION

App Academy – Full Stack Software Development   June 2021 – December 2021
- Rigorous 1000-hour full stack software development course with <3% acceptance rate
- Coursework included: 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 – Bachelor of Arts – Economics   August 2012 – June 2016