

# Jack Percival

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[PORTFOLIO](#)

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## SKILLS

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

## EXPERIENCE

### Software Development Engineer - Amazon

March 2022 – Present

- Collaborated effectively with cross-functional teams to design and develop full stack features used by **millions** of Amazon customers
- Spearheaded comprehensive testing strategies by crafting unit, integration, and UI tests to establish a robust codebase with **100% test coverage**
- Owned critical on-call responsibilities to swiftly resolve high priority tickets and customer inquiries, and implemented targeted code fixes to enhance **operational efficiency** and maintain system stability
- Integrated projects with a diverse set of **AWS technologies** to optimize system performance and scalability
- 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 focused on dogs 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 - BA Economics | 3.64 GPA

August 2012 – June 2016