SHANE ROACH

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SUMMARY

Motivated software engineer with a strong foundation in engineering and design. Experienced in object oriented programming; developing, testing and debugging code, and designing user interfaces. Enthusiastic to learn new technologies and effective working under team and self directed environments.

TECHNICAL SKILLS

- Java (Spring Framework, Android Studio)
- Python
- JavaScript (ES6, React, Redux, Node.js)
- Cloud (AWS)
- Databases (PostgreSQL, MongoDB, DynamoDB, GraphQL)
- Security (Cognito, Auth0, Spring Security)

EXPERIENCE

Teaching Assistant, Code Fellows, Seattle WA, Aug 2022 - present

- Provides in class support to students solving coding assignments. Grades students homework and provides feedback to improve code efficiency and promote best practices. Topics include Javascript fundamentals, problem solving techniques, and basic data structures.

PROJECTS

Tool Share Mobile, Apr 2022 - github.com/JoRoJaLa/tool-share-mobile

- Mobile tool-sharing platform where users find and share power tools within their city.
- Built with Java, Android Studio, AWS Amplify, AWS Cognito, and AWS DynamoDB.

Tool Share, Mar 2022 - github.com/JoRoJaLa/tool-share

- Web-based version of our tool-sharing app, where users find and share power tools within their city.
- Built with Java, Spring, Spring Security, Spring MVC, Spring Boot, Thymeleaf, PostgreSQL, and Heroku.

My Kitchen, Jan 2022 - github.com/My-Kitchen-App

- A web application that takes in available ingredients from the user and calls a third-party API to suggest recipes using those ingredients.
- Built with JavaScript, React, Bootstrap, MongoDB, Heroku, and Netlify.

EDUCATION

Code Fellows - Seattle, WA
Certificate - Advanced Software Development in Java with SpringMVC & Android - 2022

Oregon State University - Corvallis, OR
Bachelors of Science in Ecological/Biological Engineering - 2019

- Coursework: Applied Differential Equations, Matrix and Power Series Methods, Statistics for Engineers, Biosystems Analysis and Modeling, Ecological Engineering Computation, Ecological Engineering Design.
- Projects: Designed and implemented a *Roof Top Runoff Bioreactor* used to filter heavy metal contaminants from the environment. Developed design calculations, modeling, and failure modes analysis. Reduced non point source pollution of zinc and copper by 60 and 40%. Lowered design costs by sourcing cheap and indigenous materials.
- Dean's List: 2018 - 2019