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

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

EXPERIENCE

Oregon State University, Corvallis OR, Climbing Center Supervisor, Apr 2016 – Apr 2019

- Directed teams of 3+ people through the daily operations of an indoor climbing center with over 300+ daily users.
- Instructed 5 different classes on technical climbing skills with class sizes of 20+ people.