Ryan Finlayson

Software Engineer

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Summary

A highly motivated and enthusiastic Software Engineer with five years combined industrial experience in Cyber Security and Advertising Technology (Ad Tech). A member of the team of four who built an award-winning Android application hosted by the British Computer Society (BCS). Thrives off challenges and aims to work to the best of his ability, inspiring others to work to their full potential. Eager to help your business strive for success.

Experience

NOVATIQ | Software Engineer

July 2021 – Current | London, UK

- → Application development for Advertising Technology (Ad Tech) using telemetry from telcos to make user profiles and views
- → Part of the Golang application development team.
- → Contributed to team discussions on database designs for API development.
- → Performed Code reviews and peer programming
- → Honed my unit testing and behave testing skills with CI/CD best practises. GoMock was a useful Go tool that I used to mock database connections.

QUOD ORBIS | Full Stack Software Engineer

Sept 2019 – Feb 2021 | London, UK

- → Application development in Cyber Security. Helped develop the security controls panel.
- → Developed modular microservices in Golang. Apache Nifi used to retrieve and transform data into the required formats.
- → Developed the 'database solutions explorer' on my own. It provides a visual representation of the security controls database. I used D3.js and React.js to design and program this front-end application that updated in real-time.
- → I learned how to use SonarCloud to spot security vulnerabilities in Golang libraries.
- → Guided Quod Orbis to pass their Cyber Essentials Plus Certification by ensuring that code was written securely and efficiently.

MYPOCKETSKILL | Software Engineer

Apr 2017 – Sept 2018 | London, UK

- → Configured a Ruby-on-Rails application migrating 600+ users to Sharetribe open-source.
- → Communicated with clients to retrieve project's requirements, visiting focus groups to gain information about the target market.

Projects

GOMOUNTAINS APP ⬈ | Golang, ReactJS, MongoDB Atlas, Heroku

Mar 2024

- → Developed my own full-stack web application from scratch.
- → The API was written in Go and allows users to perform CRUD operations to send/receive data about mountains and their attributes.
- → The UI was created using ReactJS for the purpose of interacting with the API.
- → All data was stored in a NoSQL MongoDB collection.
- → API posted to Rapid API ⬈

Skills

PROGRAMMING

Proficient:
Golang • Python • JavaScript

Experienced:
Shell • LATEX • SQL • Java

Familiar:
C++ • Ruby • C#

LIBRARIES/FRAMEWORKS

ReactJS • D3.js • Prometheus • Node-RED

TOOLS/PLATFORMS

Git • Docker • Heroku

Education

UNIVERSITY COLLEGE LONDON

Master's in Software Systems Engineering

Grade: Pass

Sept 2018 - Sept 2019 | London, UK

UNIVERSITY OF WEST LONDON

Bachelor's in Computer Science

Grade: First Class Honours

May 2015 - May 2018 | London. UK

Certifications

Microsoft Certified: Azure Fundamentals (AZ-900) ⊞

April 2024 | London. UK

Awards

HEATHROW INNOVATION AWARD

Awarded the The Heathrow Innovation Award for the highest achieving student in the five boroughs surrounding Heathrow

July 2017 | UWL London. UK