

Martin McDonnell

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Education & Qualifications

2021 1st Class Honours Bachelors in Computer Science (Software Systems Development), Ulster University, Magee

Final Year Project: I developed an inventory management app for Android. For this project I documented the process from the problem statement, market research and user requirements gathering to the development plan and evaluation. The app stored the data remotely using firebase. It was comprehensively tested following a test plan. I was able to experiment with the front-end design of my app and created a dark theme version.

2017 Christian Brothers School

A Level: Geography B, Computing C, Mathematics C

Employment History

September 2022 – July 2023. Cloud Software Engineer at Anaeko/IBM

- Anaeko was contracted by IBM to help them with their Backup as a Service on IBM Cloud. This was using GO/GOLANG, Docker and Kubernetes. Their clients were mostly from the financial industry meaning regulations gave specific rules regarding the location and security of their data. We worked on giving users the ability to select a wide range of options regarding the location, time and frequency of their backups. There was a heavy focus on testing in this role to ensure all updates worked as intended. The dev tools for testing this project were developed in python.

October 2021 – August 2022. Remote Associate Software Engineer at Flexera

- This role was where I used GO for the first time to develop gRPC API solutions. The product I worked on was called IT Visibility. It would check all of the software used by a company and produce a report listing the subscriptions and security vulnerabilities associated with particular versions. This would allow the users to save money and become more secure. I was given more responsibility from previous roles as I owned the customer onboarding, interacted with databases and presented solutions to my team. Creating scripts allowed me to automate some repetitive, manual steps in the onboarding process to greatly reduce our time spent on it. I also provided out of hours incident response through PagerDuty. I have worked on the AWS side of the products using Athena queries, Glue crawlers and s3 buckets to manage data and store query results. Along with Docker and Kubernetes for container management. In terms of databases, I worked mainly with MongoDB and Postgres.

July 2021 – September 2021. Graduate Software Engineer at Pytilia

- I got this role after graduating university to work on REST APIs with Python in a hybrid work environment. My main task was to add health checks to the end points so we could see the status and identify issues quicker.

August 2019 – August 2020. Intern Software Engineer at Xperi

- This was a position I attained as part of my university course. I worked on developing internal Android and iOS apps using Agile. The apps were made to showcase some spatial audio libraries and to thoroughly document the mobile app development process. Both apps were shipped during my year with the company. I learned a lot from this position as it was my first one in the industry. I was able to contribute significantly to the development, bug squashing and the performance testing of the apps.

Interests & Achievements

- I was elected twice as course representative by my university classmates
- Attained the Dean's List Award for Outstanding Academic Achievement twice
- Hired as a paid mentor for Computer Science students at Ulster University
- Diploma in professional practice with commendation in 2020
- Completed the KnowBe4 Security training and Udemy courses in my spare time related to gRPC, GO, and microservices
- Volunteered for the fun committee to organise events for my office

References

Manager: Ian Outterside

Email: IOutterside@flexera.com

Placement Supervisor: Darragh Connellan

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University Professor: Sonya Coleman

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