Mark Metcalfe

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Experience

Senior Developer
Land Information New Zealand
Oct. 2023 – Present

I work at Land Information New Zealand as a Senior Digital Specialist - Developer, working on government mapping software in the form of multiple back-end and front-end apps. In this role, I have:

- Developed and maintained features front-end features for our GIS based front-end app using React, TypeScript, Redux, OpenLayers, and other libraries
- Developed REST API endpoints in Kotlin and Java using the Spring Boot framework
- Planned and architected complex new projects and features
- Implemented and upgraded our deployment stack using AWS and Cloud Development Kit (CDK)
- Designed relational database schema and constructed complex SQL
- Written integration, unit and acceptance tests to ensure the correctness and maintainability of our code
- Performed in a Scaled Agile Framework (SAFe) environment
- Demonstrated work to external customers
- Collaborated with external legacy vendors
- Peer reviewed and tested my colleagues' work

Full Stack Developer
Bank of New Zealand
Nov. 2021 – Apr. 2023

I worked at BNZ as a full stack software developer for eighteen months, with a focus on front-end development. In this role I have:

- Developed and maintained features front-end features using React, TypeScript, Redux, and other front end libraries
- Developed REST API endpoints in Java using the Spring Boot framework
- Performed in an Agile environment (both Scrum and Kanban)
- Maintained our team's Jenkins pipelines
- Oversaw production deployments
- Diagnosed live production defects using Sentry and Splunk
- Ensured our libraries and dependencies remained up to date
- Worked with our Business Analysts and Product Owner to triage security issues and technical debt
- Documented vital team processes

Full Stack Developer
Totara Learning Solutions
Oct. 2018 – Nov. 2021

I worked for Totara Learning for three years primarily as a backend developer, as well as some front-end work. In this role I have:

- Developed object-oriented code in PHP (5.6, 7+, 8+)
- Built front-end views and componentry using Vue.JS and SCSS
- Used MVC and ORM frameworks, and external libraries via Composer
- Written GraphQL APIs
- Developed scripts and tools for my fellow developers to increase productivity
- Safeguarded our product and users by auditing for and preventing critical security vulnerabilities
- Deployed and maintained external repositories for our Docker images and Composer libraries
- Helped hire an intern and mentored them over their summer internship
- Wrote technical documentation for other developers in my team and non-technical documentation for end users

Skills

Analytical
I can identify technical debt and areas where code can be cleaner, which is crucial for ensuring that a codebase can scale and is viable in the long-term.

Responsible
I take pride in the code I write - I believe developers should be responsible for their code and it should always be written to a high standard

Proactive
I am not afraid to ask questions and discover the best solutions for problems. If something doesn't seem quite right, then I make sure that the issue is tracked, rather than assuming/expecting someone else to take care of it

Multi-Tasker
I have mentored summer interns, which required walking them through our development process while simultaneously working on my own tasks

Team Player
Peer review and testing is vital to ensure the team is producing a quality product, so giving feedback in a friendly and constructive manner is crucial for improving our product quality whilst maintaining team morale

Community-Minded
I care about being part of a community and like to help foster this in a workplace environment. For instance, I have helped create a large map of all our staff names, photos and places of origin to foster a sense of community

Education

Bachelor of Science
Victoria University of Wellington
2016 – 2018

I graduated with a Bachelor of Science, double majoring in Computer Science and History. I learned a broad range of skills and competencies, including:

- Critical thinking, reasoning, and writing skills by writing extended historical analyses
- Web and mobile development
- Relational database design and interaction
- Object oriented programming in Java

References

Referees available on request