


Mark Metcalfe

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EXPERIENCE

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 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
- Written integration, unit and acceptance tests to ensure the correctness and maintainability of our code
- Used Git, BitBucket and GitHub with a high level of proficiency
- Peer reviewed and tested my colleagues' work
- Used project management software such as JIRA and Confluence

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
- Designed relational database schema and constructed complex SQL
- 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
- Designed user stories and wireframes during a deficit of UX resources
- Wrote technical documentation for other developers in my team and non-technical documentation for end users

Full Stack Developer
OraTaiao: New Zealand
Climate & Health Council
July 2018

I developed a website under a contract for an influential health professional organisation. It allowed users to create and customise a rich-text PDF that would be sent to the Ministry for Environment via email. In this work, I:

- Utilised Node.JS to write a backend with a REST API and saved client data into a MySQL database
- Wrote a frontend using React and SCSS
- Rapidly designed and developed a product with changing requirements
- Communicated and collaborated directly with clients in a professional context whilst managing client expectations

SKILLS

Analytical

- I have an academic background in analysis and research, which helps me learn more about programming
- 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
- Understanding the limits of my own knowledge means I am not afraid to ask questions and discover the best solutions for problems

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

- 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

- I enjoy helping others in and outside my team - I often contribute code and participate in pair programming which helps to advance our product
- 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
- 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