



# Mark Metcalfe

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## EXPERIENCE

**Backend PHP Developer**  
**Totara Learning Solutions**  
October 2018 – Present

I have worked for Totara Learning as a backend software developer for the past three years. I have performed and collaborated in a broad range of tasks in my role, where I have:

- Developed object-oriented code in PHP (5.6, 7+, 8+)
- Used MVC and ORM frameworks, and external libraries via Composer
- Performed in an Agile environment (Scrum, Kanban)
- Designed relational database schema and constructed complex SQL
- Wrote GraphQL APIs
- Built front-end views and componentry using Vue.JS and SCSS
- Developed scripts and tools for my fellow developers to increase productivity
- Wrote integration, unit and acceptance tests to ensure the correctness and maintainability of our code
- Safeguarded our product and users by auditing for and preventing critical security vulnerabilities
- Developed and used CI tools such as Jenkins and GitHub actions
- Deployed and maintained external repositories for our Docker images and Composer libraries
- 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
- Helped hiring an intern and mentored them over a summer
- 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

**CMS Server Manager**  
**Green Party of**  
**Aotearoa New Zealand**  
February 2018 – August 2020

I maintained a WordPress website for a mainstream political organisation, with many plugins and customisations, hosted on AWS. In this work, I:

- Containerised services required to run the CMS with Docker
- Developed shell scripts that allow others to start their own instance of the site with ease
- Customised existing WordPress plugins with PHP to adapt them to meet our needs

## 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 to improve are crucial when writing for a codebase to scale
- Humility and 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 mentored our team's summer intern, 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 something we do every day in my current role, 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
- At my current company, I 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:

- Web and mobile development using Angular (with TypeScript) and React Native to create SPAs and cross-platform apps
- Critical thinking, reasoning, and writing skills by writing extended historical analyses
- Relational database design and interaction
- Object oriented programming in Java

## REFERENCES

Referees available on request