NZ Citizen

Senior Software Engineer

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TARIQ SAIYAD

My passion for solving real world problems using modern solutions led me to pursue a degree in Software Engineering. I am always willing to learn new technologies from the full stack, with a developing interest in DevOps.

PROJECTS

Student Planner — *Student workload management app*

A mobile application that allows university students to track and plan their course work, assignments and projects. To solve the student procrastination problem, the app has a built-in gamification feature to further motivate students to complete their work on time. Made using Google Flutter and Firebase. Promotional images for the app can be found here.

COVID World Tracker — *A web-app dashboard for COVID data*

A dashboard that allows users to see worldwide COVID trends and compare the crisis response of multiple countries. The app includes multiple data visualisations, including a time slider that allows users to see the epidemic's evolution over the course of 2020. Made using React and Node.

Outfitter — *Wardrobe organisational app*

A mobile application that lets users take pictures of their clothing items to catalogue and organise them. Users can search through their items using multiple attributes, and mix and match them to form outfits. Outfit combinations are saved and can be viewed later. The app also recommends clothes to wear based on the current weather. Made using React Native and Google Firebase.

EXPERIENCE

Ministry of Education — *Senior Software Engineer*   April 2021 - Present

- Lead developer on New Zealand's Education Curriculum (NCEA) site. Implemented dual language support, full site search using **Algolia**, rebuilt and refactored large sections of the site to improve performance and code quality.
- Developed **Drupal** websites and created custom front-end components based on the Ministry's design system.
- Developed a calculator using **Vue** + **Typescript** to help teachers calculate classroom ventilation. The app takes advantage of Vuex (state management) and Typescript (type safety) and modular components for quicker and less error prone development.
- Worked with a range of AWS services and provided support to the DevOps team: **Cloudformation** to provision website infrastructure from *YAML* templates. **EC2 Image Builder** to provision EC2 environments for developers in the team. The environments are created from templates and include scripts to install the latest software required by the team. **Elastic Beanstalk** to upgrade and debug existing website infrastructure.

Haunt Digital — *Full-Stack Developer*   November 2019 - November 2020

- Worked on a wide range of front-end and back-end projects, with technologies like **React**, **Ruby on Rails** and Drupal.
- Worked under **Agency Agile** methodologies and took part in project roadmap sessions with clients to gain full understanding of new projects.
- Had sole responsibility on a project to create a solution that enables teachers to make personalised lesson plans. A web application was designed and developed from the ground up using React.

Technical Skills

Name	Years	Context
JavaScript, React, Redux	4	Work Exp, University
Vue, Vuex	2	Work Exp
Angular + TypeScript	1	Work Exp
Drupal (PHP)	3	Work Exp
AWS	1	Work Exp
Flutter (Dart)	2	University, Projects
Python	3	University, Projects

Other languages and technologies I've worked on: Svelte, C++, Java, SQL, MongoDB

Soft Skills

I can communicate project details to the wider team, demonstrated in my role at the Ministry and Haunt Digital. On many occasions, I took part in estimating the workload for various features and bug fixes, as well as conveying any concerns to the project's lead designers or analysts. This includes managing scope and time expectations, communicating the feasibility of any new features and suggesting alternatives, if applicable.

I can work effectively both as a team member and independently. I have worked on multiple projects as a sole developer, as well as in a team of two or more developers. The experience was an opportunity to streamline my github workflow and allowed me to improve my programming skills by reviewing and learning from other developers. I have also collaborated with developers both onsite and remotely during lockdown measures on various projects.

I am enthusiastic about and committed to any job I undertake. Over the course of a Drupal project at the Ministry, I took the initiative to develop the website by taking advantage of Drupal's feature sets. This was a departure from our traditional Drupal workflow, which meant that I had to work out solutions to problems not encountered before. The end result is a website that is accessible to a wide range of users, and easy to maintain for future developers.

EDUCATION

Victoria University of Wellington — *Bachelor of Engineering (Hons) in Software Engineering*

March 2017 - November 2020

- First Class
- Vice Chancellor's Scholarship
- Dean's List for academic excellence (Average grade of A) 2017-2020

Rongotai College

- Proxime Accessit Award
- Prefect and Peer leader
- NCEA Level 1, 2 and 3 at Excellence Endorsement