Jakob Rhys Frederikson

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Technical Skills

Programming Languages: C#, JavaScript, Python, C++, HTML, CSS
Technologies/Frameworks: ASP.NET Core, Entity Framework Core, SignalR, Bootstrap, Qt, Flask, React
Developer Tools: Visual Studio Code, Visual Studio 2022, Git (GitHub, Git Kraken, GitHub Desktop)

Personal Projects

Argo Company Management System (argos-jakob dev.azurewebsites.net**)** | *C#, JavaScript, Entity Framework Core (EFCore), ASP.NET Core, SignalR, HTML, Bootstrap, CSS, Figma*
- Developed a web application using **C#, ASP.NET Core** and **EFCore** using a relational database for the final project of my degree.
- Implemented a real-time notification system using **SignalR**, enhancing a more interactive user experience.
- Tailored and **customised** Microsoft's identity API to the application's needs, adding navigation properties for any related data to a user.
- **Designed** and **styled** a dashboard that displays statistics about employee tasks and their teams.
- Created a role-based **authorisation system** that allows for access control based on user roles.
- Implemented **CRUD** operations for administrators.
- Deployed to a live production environment using **Azure** and **GitHub** for seamless CI/CD.

Cloudroom (github.com/jakobfrederikson/Cloudroom**)** | *HTML, Bootstrap, JavaScript, Python, Flask*
- **Collaborated** with a team member to design and develop an education platform in my second year.
- Demonstrated **teamwork** by swiftly teaching ourselves **Flask**, a skill acquired while the project had started.
- Implemented an admin panel during early stages of development, providing a **UI** for testing data creation.
- Took the lead in the creation of the entire assignment system, covering both teacher and student functionalities as well as grading and marking assignments.
- Developed an interactive coding environment using **CodeMirror**, based on whether a teacher designated a coding or text-based assignment.

Yoobee Library System (github.com/jandrealyn/LibraryQtSystem**)** | *C++, Qt*
- Developed a comprehensive library management system during my first year, using **C++** and the **Qt Framework**.
- Quickly acquired proficiency in Qt within two weeks before the project commencement.
- Designed and implemented a **SystemFiles** class to facilitate seamless **reading** and **writing** of data stored in CSV files.
- Implemented **critical features**, including the home screen, catalogue, booking, checkout, and user profiles.
- Created **dynamic menus** that adapted to library catalogue changes.
- Played a supporting role by providing programming assistance to team members when needed.
- Demonstrated adaptability by managing data in the absence of databases.

Blog Site (jakobdev-blog.vercel.app**)** | *React, Next.js, TypeScript, Tailwind, Vercel*
- Built a responsive website using **React**, **TypeScript** and **Tailwind**.
- Utilised **Next.js** for its routing capabilities and inbuilt TypeScript and Tailwind support.
- Used **remark-html** to convert blog posts written in **markdown** to **HTML**.
- Deployed the application to **Vercel**, allowing for simple CI/CD.

React Portfolio (jakobdev.netlify.app**) |** *React, JavaScript, Tailwind, Netlify*
- Developed a responsive portfolio using **React**, **JavaScript** and **Tailwind**.
- Deployed the application to a live environment using **Netlify**, utilising Netlify's form functionality for any inquiries.

Non-Technical Experience

MCDONALDS SILVERSTREAM   Silverstream, Upper Hutt
Crew Member / Maintenance and Support   Jan 2021 – Sep 2022
- Balanced responsibilities between customer service and maintenance duties during rush hours.
- Demonstrated resilience and composure while handling physically demanding and unappealing tasks.
- Adhered to high food standards by maintaining oil quality, checking expiry dates, properly storing food, and following safe cooking procedures.
- Collaborated with the crew to maintain a high level of food and service quality for customer satisfaction.
- Developed effective multitasking abilities in a fast-paced work environment.

Education

Yoobee College of Creative Innovation   Wellington
Software Engineering   Expected Nov, 2023
Regional Technology Scholarship
Relevant Coursework: OOP, Data Structures, User Interface Design, User Experience Design, Project Management, Public Speaking, Report Writing, Research & Development

References available upon request.