

Seiya Terada

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Education

Bachelor of Software Engineering
University of Victoria

September 2018 – Present
Victoria, BC

Professional Experience

Full Stack Developer
Individual Pursuits Ltd.

January 2023 – Present
Victoria, BC

- Implemented secure authentication and authorization with role-based access control by using Auth0 API
- Developed unit tests with Jest achieving 80% code coverage to ensure application is functioning as intended
- Enforced secure coding practises to prevent security vulnerabilities and stored data on Canadian servers to follow British Columbia government's FOIPPA guidelines, safeguarding users' sensitive medical data
- Created Docker images utilizing optimization best practises to minimize image size and deployed to internal network

Software Developer Co-op
Individual Pursuits Ltd.

September 2022 – December 2022
Victoria, BC

- Gathered requirements from stakeholders to architect a full stack web application that gathers client medical data
- Designed database schema based on project requirements using ER diagrams to model solution and implemented schema with a PostgreSQL database
- Implemented data validation on user inputs to ensure data is accurate and usable by RESTful API
- Developed a user-friendly frontend using Next.js and MaterialUI components, resulting in improved usability for non-technical users and increased user engagement

Full Stack Developer Co-op
Ruboss

January 2022 – April 2022
Victoria, BC

- Collaborated within a team of 10 in an agile, fast-paced environment, contributing to code reviews and developing new features with React and Redux for an application with 500,000 average monthly visits
- Optimized the UI and flow for the PayPal checkout process, increasing purchase rate by 10%
- Refactored queries in a relational database by using optimization techniques, improving processing speeds by 40%
- Localized website from English to Japanese, enhancing its accessibility to Japanese-speaking audiences
- Revamped a 10-year-old codebase and upgraded the website to current technologies using Remix framework and GraphQL APIs, resulting in improved development experience

Data Visualization Co-op
Ocean Networks Canada

January 2020 – August 2020
Victoria, BC

- Designed website to host data visualizations, implementing solution by learning HTML, CSS, JavaScript
- Scheduled, organized, and recorded meeting minutes, facilitating communication for internal and external stakeholders consisting of up to 10 people, utilizing Jira for collaboration
- Created visualizations using Adobe After Effects and Tableau for Research Data Alliance Research Metadata Schemas Working Group to reach a larger audience and make data more accessible

Projects

Distributed Day Trading System | TypeScript, Node.js, Express.js, Docker, MongoDB

- Designed a scalable day trading application, using a distributed system architecture with Docker containers
- Managed a simulated workload of 10,000 concurrent users, implementing Redis caching and Nginx load balancing
- Analyzed performance of application to find bottlenecks using New Relic APM tool, improving throughput by 20%

Passr Grade Calculator Web App | React, TypeScript, Node.js, Express.js, Git

- Collaborated with a small team of 3 students, creating a full stack web application using TypeScript to provide students a central location to keep track of grades and help achieve their desired grades
- Implemented user authentication with AWS Amplify and Cognito for secure login and signup

Skills

Programming Languages: JavaScript, TypeScript, Python, C, Ruby, C#, Java, HTML, CSS, Go, SQL, NoSQL

Frameworks / Libraries: React, Redux, Remix, Node.js, Express.js, Next.js, Jest, Tailwind, Prisma, Ruby on Rails, ASP.NET

Databases: PostgreSQL, MongoDB, MySQL, Redis, GraphQL

Developer Tools: Git, GitHub, Docker, VS Code, AWS, Azure, CI/CD, Nginx, Auth0, Linux