Sean Wen

Software Developer

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EXPERIENCE

Detechtion Technologies — *Software Developer*

February 2023 - PRESENT

- Conceptualized and spearheaded the development of a robust integration testing solution using Javascript to evaluate a Docker-executed simulator, which delivered exceptional test coverage of over 98%.

Detechtion Technologies — *Associate Software Developer*

September 2021 - February 2023

- Orchestrated the design and development of a comprehensive data ETL pipeline for data analytics, leveraging Azure Data Factory to extract data from SQL servers, Databricks for data transformation, and PowerBI for loading the transformed data into PowerBI reports.
- Successfully developed a Next.js-based web application that acts as a unified login page for our entire product range within a record time of just 2 weeks.
- Designed and developed a React Native-based application that facilitates configuration of embedded software via Bluetooth connection, featuring a background queue process to ensure seamless data synchronization even when the hardware device is not connected.
- Improved user visibility of updated critical features, helping to move away from legacy functionalities.

Detechtion Technologies — *Software Intern (Part time)*

September 2020 - September 2021

- Built a feature that ensured compliance with the government of Alberta's environmental regulations for all of our Canadian clients.
- Managed a Cordova application, comprising 20 distinct client versions, hosted on multiple EC2 instances.

Detechtion Technologies — *Software Intern*

June 2019 - August 2020

- Worked collaboratively in an agile team of 5 to completely rebuild a decade-old ASP.Net web application with ReactJS, leveraging single page application design.
- Developed 20 different internal and external API endpoints, from user authentication to report generation, using .Net and Entity Framework Core.
- Implemented core features of the ReactJS application, such as data validation with Yup.

EDUCATION

University of Calgary

September 2015 - May 2021

Bachelor of Science in Computer Science

SKILLS

Programming Languages

JavaScript (ES6), TypeScript, HTML, CSS, C#, Java, SQL, Bash, Powershell, Lua, Python, Go, C++

Frameworks & Libraries

ReactJS, .Net, Entity Framework Core, Node.js, Next.js, Tailwind, Jest, Express, SvelteKit, React Native

Tools & Platforms

Git, Azure, AWS, VS Code, Jira, Android Studio

Methodologies & Practices

Agile, Scrum, DevOps, Unit testing, CI/CD

Languages

English (Bilingual), Chinese (Native), Japanese (JLPT-N4)

PROJECTS

All Chat

A web app built with Next.js, Node.js, and Express for chatting anonymously. Each websocket connection is assigned a random avatar and name randomly.

Captioning

A work in progress application utilizing ChatGPT technology to generate captions based on user input.