JERRY CHU

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Work Experience

Full-Stack Developer at Inspection Express (Melbourne, Australia) | C#, Angular, AWS, SQL   **Oct 2022 – Present**

- Developing and enhancing a property management platform using Angular and C#; achieving an 80% increase in operational efficiency for property managers; key features include digital agreement management, property inspections, report generation, and immersive 360-degree virtual tours
- Designed and implemented a multi-inspection scheduling feature, integrating Apple Maps for optimal route planning and inspection location visualization; the feature provides optimal route finding and automatic entry notice email distribution to tenants, significantly streamlining the inspection process for users
- Enhanced multi-inspection scheduling feature performance and user experience by offloading heavy processing tasks to AWS Simple Queue Service, allowing background services to handle these tasks; resulted in a 95% improvement in run time performance, demonstrating a significant technical achievement in system optimization
- In response to client request, designed and engineered an email scheduling workflow by leveraging AWS Step Functions and AWS Simple Queue Service; provided users with the communication capability to schedule an email in the future from within our web application

Soldier at Taiwanese Army (Hsinchu, Taiwan)   **March 2022 – June 2022**

- Completed mandatory military service of 4 months in the Taiwanese army

Frontend Engineer at Line Pay (Taipei, Taiwan) | React, Next.js, TypeScript   **Dec 2021 – March 2022**

- Developed a Next.js application that provides financial services including loans, insurance, and donations within the Line Pay application; modularized reusable components and hooks; incorporated tools such as Redux, React Query, Axios; feature is used by all Line Pay users to fulfil varying financial needs
- Created a React web application tool to enable data visualization of Line's API responses; utilized by the Line Pay's internal team to speed up development process with convenient and precise data visualization

Software Engineer Intern at Electronic Arts (Vancouver, Canada) | C#, XAML   **Sept 2020 – April 2021**

- Developed a C# and XAML-based spreadsheet editor tool within the EA Frostbite game engine, streamlining asset management and editing for over 3000 internal users. Enabled bulk selection and editing of in-game assets, comparison in a spreadsheet view, and featured CSV export and asset filter queries
- Developed a .NET Core application to automate the generation of C# solution filter files from code references, simplifying code refactoring process by pinpointing required projects paths for specific code segments, therefore massively decreasing compilation times during refactoring

Software Engineer Intern at Mojio Inc. (Vancouver, Canada) | C#, .NET Core   **Jan 2019 – June 2019**

- Implemented vehicle service schedules REST APIs in C#, enabling user notifications for upcoming services; integrated with Motor.com APIs to retrieve vehicle-specific schedules
- Developed a .NET Core application to analyze Nginx log files containing tens of thousands of API call records and generate API usage profiles in seconds, improving API load management through large data visualization

Relevant Projects

Fair Print 3D | MongoDB, Express.js, Node.js, React, Google Cloud Storage   **July 2021 – June 2022**

- A MERN stack web application that offers 3D printing and shipping services to customers
- Designed the entire application architecture; implemented a responsive React frontend with functional components, hooks, Redux, React Router, and more; implemented backend REST APIs with Express.js and Node.js to perform CRUD operations with MongoDB and GCS to manage user information and order summaries
- Enhanced security by implementing JWT-based API authentication with error handling to safeguard private routes
- Integrated Stripe for secure online payment processing, enabling seamless checkout and financial transactions

Education

Bachelor of Arts (Computer Science Major)   **Graduated: June 2021**

- University of British Columbia, Vancouver, BC, Canada