

# JERRY CHU

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## Work Experience

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- Full-Stack Developer at Inspection Express (Melbourne, Victoria) | C#, Angular, SQL** **Oct 2022 – Present**
- Building a property management software to help property managers improve efficiency by over 80% compared to traditional methods; functionalities include paperless document drafting and signing, property inspections, report generations, and 360 degree virtual tours; designing and implementing new features with the goal of helping property managers save time and providing them with the optimal user experience in mind
  - Coding in Angular and TypeScript to build the frontend; designing reusable components across the web application
  - Coding in C# .NET MVC pattern on the server side to build robust API endpoints while maintaining legacy code
  - Manipulating the SQL tables to account for changes required by new features while ensuring data integrity
  - Writing UI tests with SpecFlow in C# to ensure correct behavior of new features
- Soldier at Taiwanese Army (Hsinchu, Taiwan)** **March 2022 – June 2022**
- Completed mandatory army service of 4 months in the Taiwanese army
- Frontend Engineer at Line Pay (Taipei, Taiwan) | React, Next.js, TypeScript, CSS** **Dec 2021 – March 2022**
- Developed the Next.js with TypeScript application that provides financial services that include loans, insurance, and donations in the Line Pay application based on UI/UX designs; modularized reusable components and hooks; incorporated tools such as Redux, React Query, Axios; used by all Line Pay users to fulfil different financial needs
  - Created a React web application using Line Frontend Framework to enable a clear display of data returned by Line's APIs; used by Line Pay's development team to speed up development process with precise data visualization
- Software Engineer Intern at Electronic Arts (Vancouver, Canada) | C#, XAML** **Sept 2020 – April 2021**
- Designed and implemented the spreadsheet editor tool using C# and XAML in Frostbite game engine, used by over 3000 employees internally; it allowed users to select and edit multiple in-game assets at once while comparing their values in a spreadsheet view; it provided useful features including export as CSV file and filter query over the assets
  - Created an application using .NET Core and C# that takes in the references to any piece of code in a C# solution and generates a C# solution filter file containing the necessary project paths to compile that piece of code
- Software Engineer Intern at Mojio Inc. (Vancouver, Canada) | C#, .NET Core** **Jan 2019 – June 2019**
- Designed and implemented the vehicle service schedules REST API method calls of the Mojio product in C#, including functionalities of notifying users of upcoming service items, retrieving vehicle-specific service schedules from Motor.com APIs, and marking service items as completed
  - Created an application using .NET Core and C# to generate API usage profiles in seconds based on Nginx log files containing tens of thousands of API calls; allowed development team to visualize and improve API load management
  - Created an application using .NET Core and C# to simulate sending Mojio's device messages to Azure Event Hubs bypassing Azure Gateway; allowed development to test Mojio's device messages quicker in a specified environment

## Relevant Projects

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- Fair Print 3D | MongoDB, Express.js, Node.js, React, Google Cloud Storage, CSS** **July 2021 – Present**
- 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
  - Implemented API authentication using JSON web token with error handling to protect private API routes
  - Integrated Stripe's APIs to implement a secure checkout session that handles online payments and transactions
- SuperRent | Java, SQL, Oracle Database** **Oct 2019 – Nov 2019**
- Java application that resembles a car rental company system with functionalities including viewing, reserving, renting, and returning vehicles from the Oracle Database using SQL queries
  - Designed and normalized relational database to BCNF to reduce data redundancy and improve data integrity
  - Designed and implemented methods in Java and SQL queries to generate daily vehicle rental and return reports

## Education

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- Bachelor of Arts (Computer Science Major)** **Graduated: June 2021**
- University of British Columbia, Vancouver, BC, Canada