Yuchen (David) Li

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EDUCATION

- **University of Waterloo**
  Bachelor of Computer Science Honours Computer Science – Co-operative Program (Distinction) Sept 2018 - Aug 2023
  Awards: Top 25% in Canadian Computing Competition 2017 (Senior Division)

EXPERIENCE

- **PINpoint Information Systems Inc.** Burlington, ON, Canada
  Full Stack Software Engineer *Sep 2022 - Apr 2023 (Intern), Oct 2023 - Now*
  - **Boosted performance** of a Database Activity Replay tool by over 10× through efficient thread utilization and **designed an intuitive feedback interface** to enhance user experience (**C#/WPF**)
  - **Designed and delivered** a Visual Studio custom build task that automates model generation across service and front-end tiers, **streamlining development workflows**
  - **Mentored and on-boarded** multiple Co-Op students and a full-time software developer, fostering their technical growth and integration into the team.
  - **Refactored and optimized** front-end components to be fully generic and reusable, **reducing development time** and improving maintainability (**Angular/HTML/JavaScript**)
  - **Automated integration** of performance metrics into Grafana dashboards, improving system visibility and proactive monitoring
  - **Developed** a robust, configurable token processing mechanism to meet diverse customer requirements and enhance system adaptability
  - **Overhauled and parallelized** the automated test codebase, cutting execution time by 90% and accelerating CI pipelines (**Appium Windows Driver**)
  - **Optimized database interactions** by converting service-tier calls to asynchronous operations, **significantly improving performance and scalability**
  - **Authored and maintained** critical technical documentation, including API references and internal knowledge base articles, to support onboarding, troubleshooting, and cross-team knowledge sharing

- **JSI Telecom** Kanata, ON, Canada
  Software Engineer *Jan 2020 - Apr 2020 (Intern)*
  - Collaborated with the UI/UX team in **Agile** sprints to improve user interfaces for telecom products
  - Participated in cross-team discussions to ensure cohesive product development

TECHNICAL SKILLS

- **Languages**: C#, WPF, SQL, Angular, HTML, JavaScript, C++, Java, C, Delphi
- **Software & Frameworks**: .Net Core, ASP.Net Web API, Microsoft Azure, Appium Windows Driver, Kotlin, Jira
- **Tools**: Visual Studio, Git, SSMS, SSAS, Postman, IIS Express, Azure Studio, Linux, Android Studio

PROJECTS

- **File Organizer**: Mar 2024
  - Developed a solution to organize images by orientation and systematically sort them into respective folders for efficient management
  - Filter on sub-folders and choose to keep or drop the entire sub-folder

- **Android Gesture Recognition App**: Dec 2021
  - Designed an Android application capable of recognizing hand gestures using **Android Studio**

- **Poker Game - "Hydra"**: Aug 2020
  - Built a poker game with comprehensive test coverage and a detailed technical report

- **Snake Game**: Jun 2020
  - Developed a Snake game from scratch using **C#/WPF**
  - Learned **WPF and Git version control** to manage project updates effectively