Jackie Yuan Jun Xu

Honours Computer Science (2016 – 2021) – University of Waterloo

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Summary of Qualifications

- Strong Software Engineering background in Algorithms, Data Structures, Design Patterns, and Cybersecurity
- Proficient in languages/frameworks including Python, C/C++/C#, Java, SQL, MongoDB, HTML, JS, and CSS
- Expertise in various assets including Front-end, Back-end, Mobile, Database, and Game development
- Independent and fast learner with over 3 years of accumulated experience

Employment

Software Engineer • ContextLogic/Wish Corp. (Toronto, ON)

(May – Aug 2019)

- Wrote new tools and API endpoints for the Merchant platform using Python, JavaScript and MongoDB
- Developed **Cron** jobs that **automate** employee performance and product quality reports
- Created metric boards using Prometheus to monitor teams, merchants and products
- Refactored and decoupled code for the platform's Role-based Access Control permissions system
- Implemented a highly impactful penalty system that directly affects merchants and products

Mobile Development Intern • Square Enix Montréal (Montréal, QC)

(Sep – Dec 2018)

- Designed and implemented proprietary and experimental game features in Unity and C#
- Created a batch script that enables automation of parallel deployments
- Performed optimizations that reduced memory leaks and unnecessary allocations by over 100 times
- Created Unity editor scripts and C# extensions that help save time for other employees
- Formulated and implemented a post-game analytics system using a custom Ranking Algorithm

Game Developer • Behaviour Interactive (Montréal, QC)

(Jan – Apr 2018)

- Implemented core gameplay features and bug fixes using Unity and XML
- Optimized elements involving heavy garbage collection and large data pulls using asynchronous coroutines
- Remodelled the way map data is managed to remove over 100 file dependencies
- Reported and fixed various game-breaking bugs and vulnerabilities

Full Stack Developer/URA • MyEffect/University of Waterloo (Kitchener, ON) (May – Dec 2017)

- Developed **Python** scripts to analyze user trends from **SQL** server logs for the URA **research project**
- Discovered and patched a critical security vulnerability that can compromise users' private information
- Compiled a detailed guide for the company platform to improve its codebase documentation
- Wrote multiple research reports on the specifications of tools and data analysis

Projects and Activities

- PicFive Hackathon web project involving Image Recognition and Natural Language Processing technologies to associate words with their corresponding images
- Game Development Projects Modernized versions of classical games using Python's Pygame library with additional complex mechanics such as Physics, Enemy tracking, Map generation, and Path-finding
- WatRGoose Android puzzle mini-game as part of the MLH local hack day hackathon using Android Studio