

ELYSIA WANG

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EDUCATION

University of Waterloo

Sep. 2020 - Apr. 2025

- Candidate for Bachelor of Math: Combinatorics & Optimization, Pure Math, Computer Science
- Relevant Coursework: Object-Oriented Programming (C++), Elementary Algorithm Design and Data Abstraction (C)

University of Copenhagen (Exchange Program)

Sep. 2022 - Jan. 2023

- Relevant Coursework: Advanced Algorithms and Data Structures (Masters Level), Introduction to Quantum Computing

EXPERIENCE

Software Engineer

May 2024 - Jul. 2024

Microsoft (The Coalition, Xbox Game Studios)

- Spearheaded the end-to-end migration of our performance reports to a **Databricks Python notebook and dashboard**, reducing the overall amount of stored data by **20%** and allowing reports to be generated **3x faster**
- Added dashboard filters to customize the reports, allowing the performance bottleneck cause to be identified **5x quicker**
- Designed and implemented new telemetry events in **C++** to provide the required data for the performance reports, which are now **used by all engineering teams** across the studio

Software Developer

Sept. 2023 - Dec. 2023

Wealthsimple

- Implemented retirement accounts (LIF and RRIF) and their respective validations using **Ruby** to increase client retention, preventing a loss of an estimated **170+** high-value clients annually
- Scoped and executed a project to deprecate an outdated service, shortening the timelines of approximately **5500** internal transfers of assets per day by up to **2 days**
- Updated a **PostgreSQL** database and **GraphQL** query to store and fetch account valuations, resulting in a **35% increase** in accuracy of transfers

Software Developer

Feb. 2023 - Apr. 2023

OpenText

- Designed and developed a **Java** command line tool with **PicoCLI** that assesses the quality of the search service by analyzing over **174 000 data files** to evaluate precision & recall, and creates a summary of the results
 - Presented and analyzed the results, deriving actionable steps for improvement which lead to a **3x increase** in search quality across 8 languages
- Automated the process of collecting **18000+** article files in 18 languages to train NLP models using **Python**, increasing model accuracy by **25%**

Software Developer in Test

Jan. 2022 - Apr. 2022

Sony Interactive Entertainment (PlayStation)

- Automated end-to-end tests using **Pytest** scripts and **qTest** for PlayStation's subscription service, increasing testing speed by **100%** and improving performance for **48 million users** worldwide
- Monitored project health and maintained a test suite of **200+ test scripts** using **Jenkins** to alert the PlayStation 5 (PS5) store team of application and test script bugs
- Won **1st Prize** in the global company-wide hackathon with a [patent-pending](#) app for the PS5 made with **React Native** and **Typescript**

WE Accelerate Program

Jun. 2021 - Aug. 2021

Microsoft

- Designed an app that presents healthy habits in an RPG style to help users live a healthier lifestyle using **Microsoft Azure SQL Database, Bot Service, and Machine Learning Studio**

PROJECTS

Receive Receipt (TOHacks) , [SQL](#), [Python](#), & [CockroachDB](#)

- Created a backend system to manage retail receipts by emailing them to customers to save paper and reduce contact during the COVID-19 pandemic

TECHNICAL SKILLS

Languages: Python, Ruby, C++, Java, JavaScript, C, Bash, Typescript, HTML, CSS, R

Tools/Frameworks: Git, GraphQL, DataDog, React Native, Rollbar, Preset, Sidekiq, Azure, Pytest, Databricks, Jenkins, Solr, Cucumber, PicoCLI, Fortify

CERTIFICATIONS

Microsoft AZ-900 

Microsoft AI-900 