

Kyler Tran

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Education

University of Washington Bothell

Sept 2022 - Dec 2024

B.S. Computer Science & Software Engineering | Deans List

Bellevue College

Sept 2020 – June 2022

Dual Enrollment | Phi Theta Kappa Honors Society

Projects

3D Printer G-code Simulator

Dec 2024

- Developed a real-time 3D visualization tool for Marlin-based printers using C# and Unity
- Implemented hot-end movement simulation using vector paths and linear interpolation
- User interface enables 3D model selection, material customization, and print speed control

Content-Based Image Retrieval System

Nov 2024

- Created a Python application that uses intensity & color-code methods to analyze image features
- Implemented relevance feedback to improve the system with user input
- Utilized techniques such as Gaussian normalization and Manhattan distance for precise image comparison

Pacman Maze Navigator

Apr 2024

- Programmed Python search algorithms to guide Pacman through maze-based puzzles
- Optimized heuristic functions to predict the optimal path to target locations

Future Business Leaders of America - National Leadership Conference

July 2022

Coding & Programming Competition - 4th Place

Chicago, IL

- Led a team of 3 to develop a website that locates tourism activities and emergency services
- Implemented Google Places & Google Translate APIs to handle large data sets efficiently, enhancing user experience through real-time information access.
- Developed a PDF generation feature to allow users to download their favorite locations

Work Experience

Qualitel Corp.

June 2024 – Present

Automation Engineer Intern

Everett, WA

- Developed a full-stack PowerShell application to streamline the deployment of Windows computers
- Automated tasks such as connecting to the active directory, installing software, and updating the OS
- Integrated Snipe-IT via REST API, enabling asset management directly within the software

Right At School

June 2022 – June 2024

Educator

Renton, WA

- Provide a fun and safe environment for children during before/after school programs and summer camps
- Directly contributed to program staff achieving over 80% above-expectations ratings in parent surveys
- Develop communication skills with varied audiences, including children, parents, and school staff

Skills

- **Programming Languages:** C++, Java, JavaScript, Python, SQL
- **Tools & Frameworks:** Docker, ExpressJS, Git, jQuery, NodeJS, RESTful APIs