Kelly Mak

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Education

University of Waterloo | **Sep. 2021 – Apr. 2026**
Bachelor of Applied Science in Computer Engineering | *Waterloo, ON*
- **Courses:** Programming, Algorithms Analysis, Data Structures, Digital Computers, Systems Programming, Computer Architecture

Experience

Accedo.tv | **Dec 2022 - Apr 2023**
IT Specialist | *Toronto, ON*
- Collaborated with the software development team to design and implement test cases for new software features and devices, leveraging automated testing algorithms against established criteria to improve testing efficiency by 20%.
- Developed technical documentation, including user guides and developer manuals for new TV streaming features to assist users and developers in navigating new technologies, enhancing user satisfaction and feature adoption rates.
- Technical Skills: Test Case Design and Implementation, Automated testing using algorithms, Technical documentation writing, user guide, and developer manual creation.
- Soft Skills: Teamwork, Adaptability, Communication, Collaboration skills.

Accedo.tv | **May 2022 - Aug 2022**
IT Security | *Toronto, ON*
- Developed an IT security program that focuses on detecting phishing emails, ensuring timely device updates, and delivering frequent email updates and educational resources to enhance employee awareness.
- Provided support to multiple teams in raising, prioritizing, and resolving an average of 60 monthly IT support tickets, addressing issues associated with daily software usage, access grants, and onboarding processes.
- Technical Skills: Jira, System Administration Management, BitBucket, Slack, Python, Automation testing.
- Soft Skills: Critical Thinking, Problem-Solving, Attention to Detail, Time Management skills.

Canada Robotix | **June 2021 - Aug 2021**
Electrical Engineer | *Markham, ON*
- Wrote and published 20+ detailed instructions and manual guides for electronics products using HTML and CSS, incorporating code explanations for future reference.
- Developed firmware in C++ to enable a robot to track a line using two light sensors and provide real-time feedback to the motors for accurate movement.
- Optimized code for efficient memory usage and real-time performance, resulting in a significant improvement in the robot's accuracy and speed. Integrated the firmware with the hardware and validate the system's performance through extensive testing.
- Presented the project's results to the company's senior management, highlighting the technical achievements and potential applications of the technology.
- Technical Skills: Python, C++, Electronics, Electrical Wiring & Schematics Design, HTML, CSS, Debug testing.
- Soft Skills: Initiative, Analytical Thinking, Creativity, Continuous Learning skills.

Projects

WeatherWise | *React, Node.js, API, CSS* | **Mar 2023 - Apr 2023**
- Developed a weather application utilizing React, OpenWeatherMap API, and CSS, integrating the API to fetch and display real-time weather data for specified locations, and designed an intuitive, visually appealing user interface using CSS.
- Leveraged React's state management system to enable real-time storage and updates of weather data for the user's location, while integrating the OpenWeatherMap API for fetching and displaying weather data for other locations.
- Designed an intuitive user interface using CSS, providing current temperature, weather conditions, five-day forecast, and search functionality for finding weather information for other locations.

Food Suggestion App | *Python, Node.js, Firebase* | **Apr 2023**
- Developed a responsive user interface with React Material UI and Bootstrap, integrating user authentication, authorization, and data storage using Firebase technologies.
- Implemented real-time messaging between users using Firebase Cloud Functions and Cloud Messaging while also employing Google Maps API to display the location of nearby food listings and provide directions to the listing's location.

Technical Skills

Programming & Framework: Python, Java, C/C++, React, Node.js, JavaScript, API, HTML/CSS, SQL, Arduino, MATLAB.
Miscellaneous: MacOS, Linux, Shell (Bash/Zsh), Microsoft Office, GitHub, Git, Confluence, Jira Software (Agile).
Languages: English, Cantonese, Mandarin