Kelvin Tam

Toronto, Ontario • Computer Science Co-op Student

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Profile Summary

Engineering graduate with documented experience in aerospace machine learning & computer science research, repair mechanics and customer service. Passionate about software development and currently seeking Co-op opportunities.

Technical Skills

Programming Languages: C++, C, Python, Java | **Database Management:** MySQL, Oracle 12c, MongoDB

Web Development: JavaScript, HTML5, CSS3, XML, JSON, Node JS, Express JS, Bootstrap, GIT, Heroku, React, JSX

Tools: MS Office, LaTeX, MS Visual Studio, Visual Paradigm, MS Visual Code, Figma, CATIA V5, MATLAB

Machine Learning: Keras, TensorFlow, Google AI | **Operating Systems:** Windows, Linux, Mac

Education

Computer Programming & Analysis Advanced Diploma | *Seneca College*   *Graduating in Aug 2023*
- *Cumulative **GPA**: **4.0/4.0** | President's Honor List Winter & Summer 2021*

Bachelor of Aerospace Engineering (B.Eng) | *Ryerson University*   *Graduated Jun 2019*
- *Ryerson Aerospace Aircraft Design Capstone Competition (1st Place) - Project Manager*

Project Experience

Hospital Patient Management Application | *Languages: C++, MySQL*
- Developed an application for hospital administrators to register patients, manage admittance and deploy resources based on illness severity using object-oriented programming with SQL database integration

Agricultural Drone Sensors Control Program| *Languages: C*
- Developed a system control program for various Arduino drone sensors to have real-time user control/data feedback and perform necessary calculations to determine soil quality for an agricultural area of interest

Website Portfolio | *Languages: JavaScript, HTML, CSS, JSON*
- Created an online portfolio using responsive web design to showcase newly completed projects, hosted on GitHub

SGBC Mobile Application Wireframe| *Figma, UI/UX*
- Designed and iterated a mobile app wireframe for a religious organization to be outsourced for development

Work Experience

Research Assistant   *Jun 2020 - Jul 2021*

Ryerson University (Toronto, ON)
- Developed an automated 3D printing quality control system for aerospace manufacturing purposes, yielding a 98% detection success rate for defective units and leading to increased manufacturing process reliability
- Leveraged Python, Deep Machine Learning APIs and multiple visual sensors through agile development to create a program which catalogues novel manufactured defects/printing anomalies
- Deployed a live monitoring system which detects, implements error protocols and discard faulty units mid-print to effectively reduce net manufacturing waste
- Documented the design process, system specifications, software versioning (GIT), debugging & testing process and industrial implementation strategies in technical documents to be prepared for academic peer review

Bicycle Sales Associate & Repair Mechanic   *May 2018 - Jun 2020*

Switchback Cyclery - Social Enterprise (Toronto, ON)
- Managed customer relationships, providing technical consultation expertise to help recommend custom components and builds to meet their needs, resulting in higher satisfaction rates for our services
- Developed and presented technical service solutions with component listings in consideration of clients' necessities, safety, budgets and desired performance level, and executed on those orders
- Communicated service order updates and critical findings to provide full service transparency and managed timeline expectations for the client and management

Extracurricular Activities

Bell Geekfest Virtual Hackathon Participant	*Sept 2021*
Seneca Digital Health Hackathon (2nd Place)	*Mar 2021*
Seneca Computer Programming Discord Group Admin & Mentor (660 Members)	*Jan 2021 - Present*