Kevin Qu

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Technical Skills

Languages:	Python, C, JavaScript, Java, C#, C++, HTML/CSS, Dart, Visual Basic, MATLAB, SQL
Frameworks:	ROS, scikit-learn, React, Node, Express, Flutter, ASP.NET, Axios, jQuery, Bootstrap
Tools:	SQLite, Linux, HPC, Jira, Git, Postman, WordPress, Magento, Drupal, MongoDB, slurm

Education

University of Toronto   Sept 2021 – Present
BASc, Engineering Science
Average Grade: 93.6%, cGPA: 3.89/4.0, sGPA: 4.0/4.0, Dean's List Scholar

Professional Experience

ML Undergraduate Research Student   May 2022 –Present
BHK Lab, University Health Network (pmgenomics.ca/bhklab) Toronto, ON
- Working with scientists and PhD students on cancer image segmentation, supervised by Dr. Haibe-Kains
- Developing ML pipelines, saving up to 80% of ML research efforts (doi:10.5281/ZENODO.7021436)
- Creating U-Nets with PyTorch with high-performance computing (HPC), pipelining thousands of images
- Creating data standardization and training ML models for an AI challenge with the Vector Institute

Robotics Engineer   June 2022 - Present
UofT Aerospace Team (utat.ca/uas) Toronto, ON
- Coding and simulating robots to compete in SAE Aero Design – Advanced (saeaerodesign.com/)
- Robotics development in Linux environment with C++, Python, ROS and Gazebo virtual worlds
- Collaboration with electrical and mechanical teams to build fixed-wing drone and autonomous rover

ML Project Developer   Sept 2021 – May 2022
UofT Machine Intelligence Student Team (utmist.gitlab.io/projects/employeeattrition) Toronto, ON
- Develop employee attrition prediction ML model, based on IBM workplace data
- Used scikit-learn's ML packages to develop supervised and unsupervised ML models
- Build website in Django that can generate model inferences, winning team-wide Technical Award
- Model predictions outperform current research on the same data

Software Engineer Intern   Jun 2021 – Aug 2021
Idea Notion Development Inc. (ideanotion.net) Markham, ON
- Developed C# console apps and Node.js scripts to call MapBox API for generating poster images
- Built webpages using HTML/CSS, JQuery, PHP and WordPress (ourposter.com/product/custom-city-map)
- Automated manual image editing with Python Pillow (dealerai.com)

Honors & Awards

University of Toronto Scholar (top 0.4% @ UofT)   2022
In-course scholarship awarded to the top 300 most outstanding undergrads out of 76,000 at UofT (top 0.4%)
Schulich Leader Scholarship ($100k) (schulichleaders.com/kevin-qu)   2021
$100,000 award to 50 outstanding engineering students at 20 universities across all Canada
National Book Award   2021
Awarded to top graduating student at each Canadian high school by the University of Toronto

Projects

IntelliCord (devpost.com/software/intellicord)   Aug 2022
- Hack the 6ix Finalist (Top 8 projects out of 70+ projects)
- AI Chatbot that provides mental health tips using co:here and GPT-3, made with Python and SQLite3
Abyss (devpost.com/software/abyss-ewprc1)   Feb 2022
- Hardware Hackathon—MakeUofT 2022 Best "Useless Invention" award, Category Winner
- Table that caves in when objects are detected. Arduino UNO with several electrical & mechanical parts
DialekTech (devpost.com/software/note-js-wcmbkh)   May 2020
- TOHacks 2020 DCP Runner-up Award
- Web-based audio processing education application using Node.js, MongoDB, Google Cloud API