

# Kevin Qu

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## Technical Skills

Languages: Python, C, JavaScript, Java, C#, C++, HTML/CSS, Dart, MATLAB, SQL, Verilog  
Frameworks: ROS, scikit-learn, PyTorch, React, Node, Express, Flutter, ASP.NET, Axios, jQuery  
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

Courses: Data Structures & Algorithms, Digital Logic, Computer Architecture, Circuits, Linear Algebra, Calculus

## Professional Experience

### ML Undergraduate Research Student

May 2022 – Present

BHK Lab, University Health Network ([pmgenomics.ca/bhklab](https://pmgenomics.ca/bhklab)) Toronto, ON

- Working with scientists and PhD students on cancer image segmentation, supervised by Dr. Haibe-Kains
- Developing ML pipelines, streamlining ML research by up to 5x ([doi:10.5281/ZENODO.7021436](https://doi.org/10.5281/ZENODO.7021436))
- Creating U-Nets with PyTorch with high-performance computing (HPC), pipelining thousands of images
- Created data standardization and training ML models for Vector Institute AI challenge

### Robotics Engineer

June 2022 - Present

UofT Aerospace Team ([utat.ca/uas](https://utat.ca/uas)) Toronto, ON

- Fabricating rover bot, aircraft and drones to compete in SAE Aero Design – Advanced ([sae.aerodesign.com/](https://sae.aerodesign.com/))
- Robotics development in Linux environment with C++, Python, ROS and Gazebo virtual worlds
- Robot and aircraft design (electrical and mechanical) using SOLIDWORKS and Gazebo

### ML Project Developer

Sept 2021 – May 2022

UofT Machine Intelligence Student Team ([utmist.gitlab.io/projects/employeeattrition](https://utmist.gitlab.io/projects/employeeattrition)) Toronto, ON

- Created employee attrition prediction ML model, based on IBM workplace data
- Used scikit-learn's ML packages to develop supervised and unsupervised ML models
- Built website with fully-integrated model in Django that can generate inferences; won Best Technical Award
- Model predictions outperform current research on the same data

### Software Engineer Intern

Jun 2021 – Aug 2021

Idea Notion Development Inc. ([ideanotion.net](https://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](https://ourposter.com/product/custom-city-map))
- Automated manual image editing with Python Pillow ([dealerai.com](https://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](https://schulichleaders.com/kevin-qu))

2021

\$100,000 award to 50 outstanding engineering students at 20 universities across all Canada

## Projects

### IntelliCord ([devpost.com/software/intellicord](https://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-ewprci](https://devpost.com/software/abyss-ewprci))

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](https://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