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| **Grady Palfrey** |

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# Education

Kingston, ON

Est. Grad. 2023

## Queen’s University | Computer Engineering | Bachelors of Applied Science

* Notable classes include Object-Oriented Programming, Data Structures, Algorithms, Data Analytics, Fundamentals of Software Development, Computer Architecture and Operating Systems.

# Work Experience

Vancouver, BC

May 2021 – Aug 2021

## Software Engineering Intern | Rival Technologies

* Developed backend production code for release of public API in TypeScript and JavaScript building endpoints for a Node.js Express server.
* Automated API documentation deployment in Bitbucket pipelines to AWS S3 buckets.
* Developed and automated global and regional proxy testing in deployment pipelines using Docker containers and a stub server.

# Extra-Curriculars

## Project Manager | QUANTT

Sep 2020 – Present

* *Queen’s University Algorithmic Network and Trading Team* is a quantitative finance club in which I currently oversee 3 teams of general members pitching and developing trading algorithm strategies.

## Software Developer | QTMA

May 2021 – Present

* A member of *Queen’s Technology and Media Association* on a multidisciplined team of 10 including a development team of 4 members.
* Currently developing [*Casa*](https://getcasa.app/)*,* a smart mobile roommate searching application built with JavaScript, React.js, Node.js and Firebase user authentication which placed 1st in this fall’s Pitch Competition.

**Control Systems Engineer | QHDT**

Oct 2021 – Present

* Currently a member of *Queen’s Hyperloop Design Team* working towards developing a Node.js based GUI for communication and data monitoring between the user and the Hyperloop pod.

# Projects

June 2021 – Present

## [QU Birdhunter](https://qubirdhunter.com/)

* Worked with a team to rebuild a course selection tool for Queen’s students displaying almost 2000 past grade distributions which received about 50,000 views this past selection period.
* Automated grade distribution submission process and reduced biannual data entry time from around 20 hours to 15 minutes.

## [Trading Algorithm](https://www.dropbox.com/s/a9g7p8b8tp3u0gf/main.py?dl=0)

Nov 2020 – Mar 2021

* Placed 1st in QUANTT’s 2021 algorithmic trading competition by developing and implementing an ARIMA time series forecasting model and sentiment analysis strategy in Python.

## [Autonomous Driving Vehicle](https://github.com/gradypalfrey/ELEC_299_Arduino)

June 2021 – Aug 2021

* Built and programmed a small autonomously driving vehicle using an Arduino microcontroller and suite of different sensors to avoid obstacles and drive to a desired location.

# Skills

**Languages:** C, C++, JavaScript, TypeScript, Python, Java, HTML, CSS, MATLAB, Arduino, Assembly

**Technologies and Frameworks:** Node.js, React.js, Express.js, REST APIs, Git, AWS, Docker, Bitbucket, Selenium, TensorFlow