

Parker Rowe

Web & Computer Vision Enthusiast Seeking Summer 2022 Employment

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🌐 prowe.ca

🐙 github.com/parkuman

Education

BASc - Computer Engineering, Innovation @ Queen's University

2018 – 2023 // Kingston, ON

- Enrolled in a 60-person specialized stream partnered with the Smith School of Business focused on entrepreneurship and business innovation
- Relevant Coursework: Algorithms, Compilers, Operating Systems, Machine Vision, Data Structures, Object Oriented Programming, Databases, Computer Architecture

Technical Experience

Software Engineering Intern @ Ericsson

May 2021 – Present // Remote

- Lead Full-stack development of a new VPN certificate system using [React](#), [NextJS](#), [MySQL](#), [Docker](#), [OpenVPN](#), and [Easy-RSA](#) for Ericsson Response and the UN to securely manage access to networks during disaster relief missions
- Design & deploy a [Kubernetes](#)-scaled AI material prediction feature into Ericsson Indoor Planner to automatically predict user-uploaded floorplan's materials
- Develop and create test cases of new features for Ericsson Indoor Planner's API in [C#](#)

AI & Computer Vision Developer @ Queen's AutoDrive Team

Sept 2021 – Present // Kingston, ON

- Develop the team's Traffic Light Classifier ROS node for use in the [SAE AD Challenge](#)
- Architected a documentation pipeline for the team's Perception Python library
- Deployed the team's website and a work breakdown structure tool using the JIRA API

Vice Captain/AI Team Manager @ Queen's Robomaster Design Team

May 2019 – May 2021 // Kingston, ON

- Led the operations of a 50+ member campus design team to build 6 robots to compete in the 2021 DJI International Robomaster competition in Shenzhen, China
- Successfully trained and deployed a custom object detection model using [Tensorflow](#), [SSD MobileNetV2](#), [Python](#) & [OpenCV](#) to detect enemy robot armour
- Planned and led weekly team workshops for 20+ members, working toward the implementation of our plate detection model on a [Nvidia Jetson Nano](#)

Software Developer @ Distributed Compute Labs

July 2020 – April 2021 // Kingston, ON

- Led Full-stack development on [Looking Glass](#) project, implementing a feature for predicting & visualizing COVID cases based on Ontario lockdown scenarios by city
- Architected & implemented a solution for initialization of different compute worker environments in [Node](#) & vanilla web [JavaScript](#). Now in production on a network of thousands of different computers with heterogenous compute capability

Web Developer @ Canadian Undergraduate Conference on AI

May 2020 – April 2021 // Kingston, ON

- Redesigned and developed the [cucai.ca](#) website using [React](#) and [Gatsby](#)
- Created branding guidelines, marketing material, and design plans using [Figma](#) to advertise North America's largest undergraduate AI conference

Projects

Hackintosh – MacOS on a Huawei

Fall 2020

Swapped out internal SSD to dual boot MacOS and Windows 10 on my Matebook X Pro laptop. Modified MacOS kernel extensions, EFI bootloaders/partitions, drivers, and BIOS options.

prowe.ca – Personal Site

Summer 2020

Built using [React](#), [Gatsby](#), and hosted on [Netlify](#). My very own website for posting about things I have been working on.

AlarMe – 'Smart' Alarm Clock

May 2020

A specialized Wi-Fi Arduino alarm clock that beeps, vibrates, and can only be snoozed by getting out of bed and tapping an NFC tag placed elsewhere in your home. Companion app for setting and snoozing alarms made using [Flutter](#) for Android and iOS.

Skills

Programming Languages

[JavaScript](#)/[TypeScript](#), [Python](#), [C](#), [C#](#), [Java](#), [HTML](#), [CSS](#)

Libraries & Frameworks

[React](#), [Next.js](#), [Node](#), [OpenCV](#), [TensorFlow](#), [Gatsby](#), [ROS](#)

Tools & Platforms

[Git](#), [Docker](#), [Kubernetes](#), [Azure](#), [GCP](#), [AWS](#), [JIRA](#), [Arduino](#), [NVIDIA Jetson](#), [Linux](#), [Windows](#), [Bash](#), [Netlify](#), [Figma](#), [MySQL](#)

Other

Self-learning, Agile Development, Report Writing, Initiative, Leadership, UX Design, Teamwork, Communication

Interests

Camping, Running, Cooking, Guitar, Learning, Gaming, & Travel (🌍)