

# Parker Rowe

Full-Stack Developer & Computer Vision Enthusiast

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🌐 [prowe.ca](http://prowe.ca)

🐙 [github.com/parkuman](https://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

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

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
- Set team on a path to using Machine Vision and AI in our robots for the first time

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
- Took initiative to solidify & improve the onboarding UX for the start-up's 50+ beta developers joining the platform through the First Devs program

Web Developer @ Canadian Undergraduate Conference on AI

May 2020 – April 2021 // Kingston, ON

- Redesigned and developed the [cucai.ca](http://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](http://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

JavaScript/TypeScript, Python, C, C#, Java, MySQL, HTML, CSS

Libraries & Frameworks

React, Next.js, Node, OpenCV, TensorFlow, Gatsby,

Tools & Platforms

Git, Docker, Kubernetes, Azure, GCP, JIRA, Arduino, NVIDIA Jetson, Linux, Windows, Bash, Netlify, Figma, GraphQL

Other

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

## Interests

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