

# Griffin Clark

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## OVERVIEW

Eager to leverage my Engineering Physics background and software engineering skills, I am seeking a role in a fast-paced, collaborative setting. With expertise in Python, PHP, JavaScript, and React, as well as many projects worth of AI/ML experience, I am well-equipped to contribute to various projects. My adaptability and commitment to continuous learning are evident in my research and previous roles. I look forward to bringing my technical acumen and innovative mindset to a dynamic team.

## PROFESSIONAL EXPERIENCE

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### DEALSOURCING, Vancouver, BC

*Full Stack Engineer, May 2022 – May 2023*

- Spearheaded the technical transformation for a **SaaS Startup**, enhancing website efficiency by rewriting the backend using **PHP, Python, and Laravel**, and updating the front-end using **HTML, CSS, AJAX, and jQuery**.
- Engineered a **Python-based data scraper** to consolidate information, and designed an **AWS RDS** infrastructure for storage, enhancing data capture efficiency.
- Implemented **agile development** techniques to effectively manage and coordinate multiple streams of work within the teams, ensuring timely and consistent progress towards project goals.
- Developed and implemented **REST APIs**, enhancing website functionality and user interaction, optimized **HTTP request** handling, increasing server response time by 95%.

### ALACRITY CANADA, Victoria, BC

*Software Engineer Intern, January 2022 – May 2023*

- Streamlined the technical and asset acquisition process for a Startup, working with **GitHub, Stripe, AWS, and Heroku**.
- Regularly provided the board with weekly progress updates, exemplifying a strong commitment to meeting deadlines.
- Acted as the primary technical consultant for a mid-size firm, addressing domain complications and bug resolutions, while executing web page redesigns utilizing **Wordpress, Hubspot, and Namecheap**.

### MCDONALD INSTITUTE, Remote (Kingston, ON)

*Research and Outreach Fellow, May 2021 – September 2021*

- Advanced research in dark matter through the **complex mathematical modelling** of stellar and galactic formations with the use of the Queen's **supercomputer server**.
- Quickly adapted to unfamiliar hydrodynamic modelling software such as **GIZMO, yt and DICE**.
- Leveraged python fluency to analyze data coming from the models, as well as teaching the language to high school students.

## EDUCATION

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### QUEEN'S UNIVERSITY, Kingston, Ontario

*Bachelor of Engineering Physics with Honours, Specialization in Computer Engineering*

## RELEVANT PROJECTS & RESEARCH

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### ENPH 455 THESIS, Kingston, ON

*Cooperative Perception for Autonomous Vehicles (AI)*

- Conducting research on **cooperative perception** for autonomous vehicles, with a focus on feature extraction using the **PointPillar method** and vehicle to infrastructure feature fusion using deep learning on the DAIR-V2X dataset.
- Investigating the potential benefits and challenges of cooperative perception for autonomous vehicles and developing new methods and algorithms to improve the accuracy and reliability of this technology.

### ENPH 454 CAPSTONE PROJECT, Kingston, ON

*Queue Hop – AI Line Estimator*

- Built customer facing IOS/Android app using **JavaScript and React Native** for a class capstone project.
- Trained a **point based deep learning model** to count the number of people in line at an engineering bar on campus and deliver line count and wait time estimates through the app.
- Integrated a Google Sheets API to transfer and display analyzed data from the model to the app for user accessibility.

## PROGRAMMING LANGUAGES/Frameworks/OS

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- Python, PHP, JavaScript, TypeScript, Swift, SQL, C++, Java, Laravel, React, Linux, Unix, Ubuntu, Docker