

Kai Ferrall

kaiferrall.com
kaiferrall@gmail.com
github.com/kaiferrall
613 583 3409

EXPERIENCE

ecobee — Software Engineer Intern

May 2020 - Present

- Minimized error costs by developing data pipeline with SFTP server and Google cloud functions.
- Some random filler text to make it filled out.

Pitch Development — Full Stack Web Developer

May 2019 - Sept 2019

- Developed generic media microservice, saving **approximately 40 hours** of work.
- Developed cache service with Redis. On average **saving 176ms per authenticated request**.

PROJECTS & WORK

Viral Disease Modelled via Opinion Dynamics.

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MATLAB Python Pandas + Matplotlib

source code

HeadtoHead.ca CMS Platform.

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Express MongoDB React + Redux Redis Stripe API

application private github

Cloud Detect.

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Yolo3D OpenCV Flask React

github

Feedback.

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Express React + Redux MongoDB

application github

EDUCATION

Queen's University — Applied Mathematics and Computer Engineering (GPA 3.1)

2017 - 2022 (professional internship)

Engineering Society Software Development Team — Team Lead

Englinks — Engineering Tutor (C, MATLAB, calculus, linear algebra)

Relevant Courses:

Data Structures, Digital & Embedded Systems, Control theory, Signal & Systems theory, Calculus 1, 2 & 3, Computer Architecture, Probability 1 & 2, Linear Algebra 1 & 2, OOP for engineers.

LANGUAGES

Python 3
Node.js
JavaScript + HTML5 + CSS3
C

TOOLS & TECHNOLOGIES

MongoDB + MySQL
Git
Redis
Jira + Confluence
Stripe API
Regex

FRAMEWORKS & LIBRARIES

React + Redux
Express
OpenCV
Pandas + Numpy
Flask
jQuery
JUnit + unittest

OTHER SKILLS

Microservice design/dev
RESTFUL API integration/dev
Agile
Technical report writing
JWT token authentication