Kai Ferrall

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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. · *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.

MATLAB   Python   Pandas + Matplotlib

source code

HeadtoHead.ca CMS Platform. · *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**.

Express   MongoDB   React + Redux   Redis   Stripe API

application   private github

Cloud Detect. · *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**.

Yolo3D   OpenCV   Flask   React

github

Feedback. · *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**.

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

OTHER SKILLS

Microservice design/dev
RESTFUL API integration/dev
Agile
technical report writting
JWT token authentication

FREELANCE WORK FOR

Acoutera
HeadtoHead
Glocalization Hub