

JULIEN PHILLIPS

Computer Engineer (CEP)



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PERSONAL PROFILE

Computer engineer with a passion for software development. Well-versed in writing code to create functional and dependable software. Eager learner who adapts quickly to new environments. Team player who enjoys working with others. Confident communicator in English and French, both orally and written.

EDUCATION

McGill University - Bachelor of Computer Engineering

Montreal, Canada

Sept 2017 - Apr 2021

SKILLS

Languages: Python, Java, JavaScript, Node.js, Kotlin, C, Bash, HTML, CSS

Technologies: Git, Django, Express.js, PostgreSQL, Firebase, MongoDB, Mongoose, Android Studio

WORK EXPERIENCE

Research Intern

May 2020 - Aug 2020

Nuance Communications

- Built a classifier capable of determining a conversation path based on data from call centres. The classifier used the text from thousands of conversations and a predetermined set of rules to classify a conversation's intent.
- Created a dashboard to compare metrics between different build versions of the same project, allowing my team to view which metrics were suitable or regressing.
- Integrated support for custom metric baselines for different build versions in the dashboard in order to determine whether a build version is suitable based on client requirements.

Research Intern

May 2019 - Aug 2019

Nuance Communications

- Created Python scripts that allowed my team to view groups of utterances as a dialogues, enabling them to check if their software was behaving as expected over the course of a dialogue.
- Improved a parser to extract additional research data my team desired.
- Wrote a Bash script to automate the parsing of new files.
- Added support for German users to be able to pronounce English letter abbreviations in German and Germanized English.
- Enhanced a web-app's data visualization features to view specific metrics using HTML, CSS, JavaScript, Jinja2, Python and Chart.js.

PROJECTS

Web Application for Measuring and Tracking Investment Portfolio Performance

Sept 2021 - Oct 2021

Richduck.ca

- Responsible for end to end development and deployment of the application.
- Devised suitable data models for investments and implemented custom user models.
- Wrote backend logic using Python within Django framework.
- Achieved computation of performance metrics for a user's portfolio.
- Designed and built frontend using HTML, CSS and Django's template language.
- Successfully deployed application on DigitalOcean Droplet using a PostgreSQL database within a VPC.

Menu Discovery Android Application

Sept 2020 - Apr 2021

Fygo

- Responsible for the complete development of the application in Kotlin.
- Integrated the application with existing Firebase database, with support to easily change databases in the future without breaking any frontend code.
- Designed and implemented frontend with similar design language to their iOS application counterpart.
- Followed Android application best practices by using the MVVM design pattern.

Detecting & Tracking People in Video

Jan 2021 - Apr 2021

McGill University

- Contributed to the creation of a pipeline capable of detecting, localizing and tracking individuals walking across a scene.
- Cleaned and setup the data, allowing my teams to have suitable data to train the classifier.
- Devised and implemented the algorithm capable of localizing individuals within a frame of video.
- Played a secondary role in creating the classifier capable of detecting whether an image is a person or non-person.