

EXPERIENCE

MAGNETIC | BACKEND AND DATA ENGINEER

May 2017 – Present • New York, NY

- Rapidly build and maintain microservices in Python, Java, and Ruby
- Develop network of Flask powered REST APIs and Hadoop clusters
- Write Spark jobs to run on AWS instances and consume 3 to 4 terabytes of data a day
- Full stack development using Angular and Jinja2

RECURSE CENTER | RETREAT PARTICIPANT

September 2016 – December 2016 • New York, NY

- Implemented a chess AI and websocket client in Go
- Built a PostgreSQL database and JSON API for an Android App that puts reddit-style comments onto a map in Go
- Implemented the BitTorrent protocol for distributed file-sharing in a command line client in Go

FREELANCE SOFTWARE CONSULTANT | BACKEND AND ANDROID DEVELOPER

January 2016 – February 2017 • Washington DC

- TransitApp: Worked on generating OSM map tiles and optimizing routes
- International Red Cross: Advised the creation of a "Cash-In-Emergencies" Toolkit, and wrote a mock up Android application.
- Knowledge Ecology International: Published an Android app using the Twitter and Youtube api

ECOLE ÉLÉMENTAIRE BRUXELLES | PROGRAMMING TEACHING ASSISTANT

January 2016 – July 2016 • Paris, France

- Taught fundamental video game development (loops, conditions, coordinates, threading) using Scratch

MCGILL DIGITAL HUMANITIES PROJECT | DIGITAL RESEARCHER

January 2015 – July 2015 • Montreal, QC

- Used Python, NLTK, and Regex to analyze a large corpus of text from early modern England and test a hypothesis

PROJECTS

GHESS | GOLANG CHESS ENGINE AND AI

A chess engine in Go; it supports PGN and includes a Websocket GUI and a fast and effective AI.

DEMOCRACY DROID! | JAVA ANDROID APP FOR MEDIA STREAMING

A Democracy Now! podcast app; it has thousands of active users around the world.

THE TREASURE MAP | PYTHON FREE STUFF MAPPER

Flask Application which scrapes and geolocates free stuff; it uses a custom pypi package, freestuffs.

WINK | PHP FLAT FILE PHOTO GALLERY

A PHP flat file photo gallery; it is made with Bootstrap, a REST API, and authentication.

FISSURE | JAVA ANDROID APP FOR GIFS

App for generating GIFs; it is translated into French and Japanese and popular in the open source community.

LANGUAGES

GO, PYTHON, JAVA, PHP, RUBY, HTML/CSS/JS

Flask, Django, Kafka, Spring, Hadoop, Bootstrap, libGDX, Arduino • MySQL, PostgreSQL, BoltDB, Redis

EDUCATION

MCGILL UNIVERSITY | MASTER IN RELIGIOUS STUDIES

September 2013 – July 2015 • Montreal, QC

The Work of Text in the Age of Digital Reproduction: A comparison of Ancient Literary Practice and the Copy Left Movement

MCGILL UNIVERSITY | BACHELOR IN RELIGIOUS STUDIES

September 2009 – July 2013 • Montreal, QC

Focus on exegesis of classical texts (Latin and Greek) and the philosophy of religion.