

Sin Richard

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EDUCATION

UNIVERSITY OF WATERLOO

B.Sc. HONOURS CO-OP PHYSICS

April 2017 | Waterloo, ON

LINKS

Github: [sinr0202](#)

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COURSEWORK

PHYSICS

Hamiltonian Mech.

Quantum Mech.

S/G Relativity

Electronics

Quantum Computing

Astronomy

CS

Abstraction

Modulation

MATH

Statistics

Linear Algebra

Vector Calculus

Differential Calculus

LAB

Digital Data

Data Analysis

Measurement

Reporting

SKILLS

LANGUAGES

C • Java • Python

Ruby • Lua • PHP

Javascript • CSS • SQL

FRAMEWORKS

Rails • Django • AngularJS

jQuery • CoffeeScript

Bootstrap • TDD

RESTful API

TOOLS

Linux • AWS • SQUID

Git • Mercurial • RegEx

Ajax • Trello • Slack

HIGHLIGHTS

- **Highly motivated** individual, ready to crush tasks; References provided
- Deeply involved in the startup scene, **founded and lead a team of seven**
- Modern developer **using latest tools** to bring bleeding edge solutions
- Passionate about open source projects and **actively involved**
- Desire to learn more, coupled with **great aptitude**

EXPERIENCES

LEAFII | CO-FOUNDER

May 2016 - Aug 2016 | Kitchener

"Leading a team of seven, we created a personal website search engine. I set goals, assigned tasks to individuals, and oversaw the entire product development."

- Presented powerful pitches to investors, and competed in competitions
- Assigned tasks for individuals and co-ordinated product development
- Using customer feedback, iterated the business model canvas repeatedly
- Took business advice from senior entrepreneur mentors

FILMOCRATS | RAILS DEVELOPER

Jan 2015 - April 2015 | Toronto

"From research to release, I built core technology of Filmocrats with the CTO. Within two months of conceiving the design, our alpha product was released."

- Proposed and designed new streaming logic over former using HLS
- Adapted TDD for modular, and maintainable code using RSpec
- Developed one-page-app using AngularJS with CoffeeScript
- Protected proprietary data by delivering content with AWS key signing

EMPRESS EFFECTS | DATABASE ENGINEER

Sept 2014 - Dec 2014 | Ottawa

"I designed a full scale inventory database. Elaborate planning made it possible to cut development time significantly."

- Designed an entire database schema using ERD charts
- Preserved data integrity using key constraints
- Tested all functionalities using PHPUnit
- Optimized performance of queries using materialized views
- Documented specifications of all PHP code using Doxygen
- Cached data for efficiency using MySQL triggers

UW SCIENCE COMPUTING | DJANGO DEVELOPER

Mar 2014 - April 2014 | Waterloo

"Worked to automate exam marking process. Picked up everything including, linux, MVC, and ajax."

- Designed a user interactive module for data analysis system, using canvas
- Constructed dynamic parameter API using routes
- Integrated frontend application with backend API using Ajax
- Maintained SQL database using Django ORM

SCIENCE FAIR IN A BOX | PHP DEVELOPER

Jan 2014 - Feb 2014 | Waterloo

"Employed to extend the project, I maintained the backend of an existing server."

- Developed using open source tools on linux
- Fixed errors in pre-existing PHP code
- Integrated new features into existing project