

Samuel Mercier

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Education

Purdue University

West Lafayette, IN

B.S. in Computer Science Honors, B.S. in Mathematics, GPA: 3.52/4.0

May 2019

Relevant Course Work

- Completed: CS 251 *Data Structures and Algorithms*, MA 353 *Linear Algebra II*
- In Progress: CS 381 *Intro to Algorithm Analysis*, CS 252 *Systems Programming*, STAT 416 *Probability*, MA 341 *Real Analysis*

Awards: Purdue Presidential Scholarship & Purdue Marquis Scholarship

Fall 2015–Present

Technological Experience

Programming Languages/Frameworks

◦ Proficient: C/C++, Ruby, Ruby on Rails, Sass, & Web Languages (CSS/HTML/JS)

◦ Familiar: Elixir, Emacs Lisp, Java, Express, Phoenix, & Python

Other

◦ Common GNU utilities, Emacs, Git, GNU/Linux (especially Arch), MongoDB, & SQL

Work Experience

CS 240 Undergraduate Teaching Assistant

January 2016–May 2016 & August 2016–Present

◦ Assisted in teaching CS 240 *Programming in C* in weekly lab classes & preparing materials

Software Engineer Backend Canopie.co

July 2016–Present

◦ Created a RESTful backend and user authentication system for the startup's social network

◦ Developed skills in functional programming

◦ *Technologies:* PostgreSQL with Ecto as a wrapper, Elixir, Phoenix

Software Engineer Intern Fullstack Springbuk

June 2016–August 2016

◦ Led development on a Ruby on Rails web app for customer onboarding in an Agile environment

◦ Transitioned the startup's analytics platform to a RESTful design pattern

◦ *Technologies:* PostgreSQL with ActiveRecord as a wrapper, Ruby, Ruby on Rails, JQuery

CS USB Help Room Tutor

September 2015–December 2015

◦ Tutored in CS 180 *Object-Oriented Programming* and CS 240 *Programming in C*

Other Experience

BoilerMake Hackathon Executive Board (Dev Team)

January 2016–Present

◦ Lead development on a web application (using Express) that consisted of a series of puzzles.

Purdue FIRST Programs (IT Team)

August 2015–Present

IT Director

May 2016–Present

◦ Helped organize an offseason robotics competition. Lead digital campaign for the competition.

Personal Projects

Available on github (<http://github.com/samontea>).

◦ http://github.com/samontea/todo_phoenix — A todo list web application, and playground for me as I explore Phoenix Framework, and modern web technologies e.g. ES6 and web sockets.

◦ <http://github.com/kotct/kotct.emacs> — A multi user emacs configuration system.