

Samuel Mercier

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Education

Purdue University

West Lafayette, IN

B.S. in Mathematics, Minor: Computer Science, Philosophy

May 2019

Relevant Course Work

- o Completed: CS 381 *Intro to Algorithm Analysis*, CS 252 *Systems Programming*, MA 353 *Linear Algebra II*, STAT 416 *Probability*
- o In progress: MA 571 *Topology*, MA 450 *Algebra Honors*

Awards: Purdue Presidential Scholarship & Purdue Marquis Scholarship

Fall 2015–Present

Technological Experience

Programming Languages/Frameworks

- o Proficient: C/C++, Phoenix, Ruby, & Rails
- o Familiar: Elixir, Emacs Lisp, Java, & Python

Work Experience

Software Engineer Intern MongoDB

May 2017–August 2017

Researched and implemented time series analysis techniques for anomaly detection for their DaaS platform. Integrated into existing alerts framework to create automated anomaly detection alerts.

Technologies: Java and MongoDB.

Web Development Intern in Support of NASA Systems Engineering NASA JSC

January 2017–May 2017

Developed requirement management software used throughout NASA.

Technologies: JavaScript, Node, Angular 1.x, Brunch, and Redux.

CS 240 Undergraduate Teaching Assistant

January 2016–May 2016 & August 2016–December 2016

Assist in teaching CS 240 *Programming in C* in weekly lab classes & preparing materials (labs, exams, etc.)

Software Engineer Intern Fullstack Springbuk

June 2016–August 2016

As an intern project, led development on an onboarding application for new customers. Worked as a normal software engineer on their Rails web Improved. application frontend/backend communication.

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 & User Experience Team)

January 2016–Present

Helped plan and organize anything relating to resources/services for the hackers. Made a small NodeJS application with a bunch of puzzles. <https://github.com/BoilerMake/puzzles-BM4>

Purdue FIRST Programs (IT Team)

August 2015–December 2016

IT Director

May 2016–December 2016

Led development of a home brewed content management system.

Technologies: Docker, Elixir, Phoenix, Postgres, React, & Redux.

Projects

- o <https://github.com/samontea/todoish> – A todo list web app with a lot of the features I like from Todoist.
- o <https://github.com/samontea/pace> – A lightweight elixir performance analysis library.