Samuel Mercier

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 samontea

Education

Purdue University, Minor: Computer Science, Philosophy   **West Lafayette, IN**
B.S. in Mathematics, GPA: 3.5/4.0   *May 2019*

Relevant Course Work

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

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. More details to come upon completion.
Technologies: Java and MongoDB.

Web Developement 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 application. Improved 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.

FIRST Robotics Team 461–Westside Boiler Invasion   *2012–2015*

Programmed the robot in C/C++ junior year. `https://github.com/frc461/rowdy-16`
Made a scouting system for recording data on other teams that consisted of a Node-Webkit application for data entry & viewing and a C program that processed and summarized the data sophomore year.
Led development on a website in Rails freshman year. `http://github.com/frc461/website-2013`

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.