

# Samuel Mercier

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GitHub: <http://github.com/samontea>

## Education

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### 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

o Completed: CS 251 *Data Structures and Algorithms*, MA 353 *Linear Algebra II*

o In Progress: 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

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### Programming Languages/Frameworks

o Proficient: C/C++, Phoenix, Ruby, & Rails

o Familiar: Elixir, Emacs Lisp, Java, & Python

## Work Experience

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### CS 240 Undergraduate Teaching Assistant

*January 2016–May 2016 & August 2016–Present*

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

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### BoilerMake Hackathon Executive Board (Dev & User Experience Team)

*January 2016–Present*

Help plan and organize anything relating to resources/services for the hackers. Made a small NodeJS application with a bunch of puzzles.

### Purdue FIRST Programs (IT Team)

*August 2015–Present*

IT Director

*May 2016–Present*

Currently leading development of a home brewed content management system. <http://github.com/purduefirst/cms>

*Technologies:* Docker, Elixir, Phoenix, Postgres, React, and Redux.

### FIRST Robotics Team 461–Westside Boiler Invasion

*2012–2015*

Programmed the robot in C/C++ junior year. It was awesome to get to do something that did more than make lights blink. <https://github.com/frc461/rowdy-15> <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. It replaced the previous high tech paper system.

Led development on a website in Rails freshman year. <http://github.com/frc461/website-2013>

## Projects

o <https://github.com/samontea/pace> – A lightweight elixir performance analysis library.