# 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*

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*, MA 341 *Real Analysis*

**Awards:** Purdue Presidential Scholarship & Purdue Marquis Scholarship                 *Fall 2015–Present*

## Technological Experience

*Programming Languages/Frameworks*

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

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

*Other*

o 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*

o Assisted 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*

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

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

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

**CS USB Help Room Tutor**                                              *September 2015–December 2015*

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

## Other Experience

**BoilerMake Hackathon Executive Board** (Dev Team)                          *January 2016–Present*

o Lead development on a puzzle based web application (using Express).

**Purdue FIRST Programs** (IT Team)                                              *August 2015–Present*

IT Director                                                                              *May 2016–Present*

o Ran website for their offseason competition.

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

o Programmed the robot in C/C++ during the 2014 off-season and 2014–2015 season

o Led the creation of a scouting system in 2013-2014 using C and Node-Webkit

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**Personal Projects**                                 *Available on github* (`http://github.com/samontea`).

o `http://github.com/samontea/todo_phoenix` — A todo list web application and playground for me as I explore Phoenix (a web framework) and modern web technologies e.g. ES6 and web sockets.

o `http://github.com/kotct/kotct.emacs` — A multi user emacs configuration system.