

# Samuel Mercier

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## 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

- 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

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### 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

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### 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

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### 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](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.
- <http://github.com/kotct/kotct.emacs> — A multi user emacs configuration system.