# Avery Harnish

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## EDUCATION

### LAFAYETTE COLLEGE
Easton, PA

B.A. in Computer Science and Religious Studies
Expected May 2019

## SKILLS

### PROGRAMMING
Experienced with:
Cloudflare Workers • Javascript
Python • Flask • SQL • HTML
(S)CSS • Docker • jQuery

Familiar with:
Golang • React • C++ • C • R • Java
Ruby & Ruby on Rails • Docker

## COURSEWORK

### SOFTWARE
Data Structures & Algorithms
Operating Systems
Artificial Intelligence
Theories of Computation
Analysis of Algorithms
Software Engineering
*(NCurses, QtCreator & C++)*
Database Management Systems
*(Ruby on Rails, HTML, CSS, Javascript & PostgreSQL)*
Operating Systems

### MATHEMATICS
Calculus I, II, & III
Mathematical Modeling
Statistics
Discrete Structures
Logic

### OTHER
Physics
Computers and Society
Computer Organization

## LINKS

Site: averyharnish.com
Github: EverlastingBugstopper
LinkedIn: avery-harnish

## EXPERIENCE

### CLOUDFLARE INC. | Systems Engineer Intern
May. 2018 – present | Austin, TX

I developed the following applications in the new Cloudflare Edge Worker environment:
- A prototype signing and generating static content and preparing Signed HTTP Exchanges for consumption by Google's AMP cache
- Lightweight router similar to Express to run web applications at the edge. My website is served from Cloudflare's edge
- An application the parsed user agent of every request SQL queries over HTTPS using cloudflared by parsing and inserting user agent data about each route on a site

### SNOWVATION INC. | Software Development Intern
May. 2017 – Jan. 2018 | Bethlehem, PA & Denver, CO
I worked with a small team of engineers to create shredbetter.com from the ground up. I designed and developed the following:
- Database models to support the data of ski resorts and our userbase
- Forms to supply the database models with data
- A central user portal for administrators, instructors, students, and customers with calendar integration
- An automated email system that notifies guests of upcoming lessons

### LAFAYETTE COLLEGE IT SERVICES | Student Consultant
August 2016 – current | Easton, PA

I work part time for ITS at school fulfilling multiple roles across the department
- Work with the Office of the Registrar to automate the migration of department evaluation criteria to a new system
- Regularly attend ITS board meetings
- Provided technical support and repair service at the help desk for faculty and students

### MANNA FOODS | Technical Staff Assistant
June 2016 – January 2017 | Lebanon, PA

I worked to decrease technological pain points for the company and developed systems to solve problems
- Created a process for security camera review with a GUI
- Created an employee scheduling system to lower the time spent formatting excel sheets for management
- Created an inventory management system for use by warehouse workers
- Created an automated system for formatting company policy in accordance to new Hazard Analysis and Risk-based Preventive Controls (HARPC) standards

### LEADERSHIP POSITIONS
Lafayette College
- 2016-2018 Treasurer of the Association for Computing Machinery's Lafayette College Chapter
- 2017-2018 Copy Editor for The Lafayette