

# 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:

Python • Flask • PostgreSQL • MySQL  
HTML • CSS • JavaScript • JQuery

Familiar with:

BASH • C++ • C • R • Java  
Ruby on Rails • Celery • Docker

### TOOLS/APPLICATIONS

Visual Studio Code • MySQL Workbench  
QtCreator • MATLAB

### OPERATING SYSTEMS

MacOS • Ubuntu • Fedora • Mint  
Windows

## 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*)

### MATHEMATICS

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

### OTHER

Physics  
Computers and Society  
Computer Organization

## LINKS

Github: [github.com/EverlastingBugstopper](https://github.com/EverlastingBugstopper)  
LinkedIn: [linkedin.com/in/avery-harnish](https://www.linkedin.com/in/avery-harnish)

## EXPERIENCE

### SNOWVATION INC. | SOFTWARE DEVELOPMENT INTERN

May. 2017 – present | Bethlehem, PA & Denver, CO

Since the summer of 2017, I have worked with a small team of engineers to re-write Shredbetter.com in conjunction with the SV Enterprise system.

- In a few short months we produced an enterprise platform featuring both e-commerce and point of sale functionality. The site is an overall hub for ski resorts, with a focus on scheduling ski/snowboarding lessons.
- Since beginning my work here, I have designed database models, made user experience decisions, and have developed numerous features from start to finish, across the whole stack.
- Some of the recent features I have developed are automated emails that notify guests of upcoming lessons, and a user portal for instructors and students that includes useful scheduling information and the ability to view/send progress cards.
- The technologies used on a daily basis are Python3 with Flask/Jinja2, MySQL, JQuery, HTML, and SCSS.

### MANNA FOODS | TECHNICAL STAFF ASSISTANT

June 2016 – January 2017 | Lebanon, PA

I was initially hired by Manna Foods to review security footage and answer phone calls, but over time my responsibilities expanded to include providing assistance to managerial staff with their technological needs

- I developed several small scripts to automate repetitive tasks and update forms/procedures
- I created a standalone user-friendly employee scheduling application
- The warehouse relied on a paper-based system to manage their inventory, so I created a simple management system with VBA and Excel to help with consistency
- Over time, I also updated decades-old system architecture, and helped with the migration of old data to the newer system

### LAFAYETTE COLLEGE IT SERVICES | STUDENT EMPLOYEE

August 2016 – May. 2017 | Easton, PA

- Provided technical support at the help desk for faculty and students at Lafayette College
- Helped recycle and replace old hardware in academic buildings

### LEADERSHIP POSITIONS

- 2016-2018 Treasurer of the Association for Computing Machinery's Lafayette College Chapter

## INDEPENDENT PROJECTS

### DRAW YOUR PROFESSOR API | SEE GITHUB

I have developed a web app that scrapes the data from drawyourprofessor.com. This data is then represented visually, and with REST endpoints that serve the data in a JSON object.

- Drawings of professors can be viewed on a school by school basis
- The scraped data is also served in JSON objects via REST endpoints
- The web app runs with Flask and the data is stored in a SQLite3 database