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: EverlastingBugstopper
LinkedIn: 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 | prof-api.herokuapp.com
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