

# Benjamin Rucker

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## PROFESSIONAL EXPERIENCE

ERIE INSURANCE *Erie, PA (Remote)*

**Software Engineer Intern** Summer 2021

At this Fortune 500 company, worked on the Software Change Management team to assist and administer Erie's software development resources. Tasks included editing CI/CD pipelines and managing platforms access.

- Rolled out new GitLab features to the company by communicating with other teams about what they need, then constructing showcases to onboard them to the new features. Examples of features include Merge Request Approvals and Pipeline Artifact Downloading.
- Developed a license management tool preventing users from sitting on GitLab licenses without using them. The tool is currently in use and saves the company \$42,000 a year, with expected savings of ~\$100,000 in the next year. Written in Python, PHP, and JS using the Codelgniter framework.

UNIVERSITY OF PITTSBURGH *Pittsburgh, PA*

**Undergraduate T.A.** Aug 2019 - Present

Undergraduate teaching assistant for the intro course to the Pitt School of Computing and Information. Teach students Python, Jupyter, git, the command line, and software ethics. Hold office hours to help students one-on-one. Wrote a lecture on how to turn data into beautiful maps using geopandas.

BOSSA NOVA ROBOTICS *Leetsdale, PA*

**Remote Robot Technician L2** Jul 2019 - Aug 2020

Monitor autonomous robot performance remotely and guarantee punctual data delivery for the clients. Work with the command line, Linux/Unix, Ubuntu, and proprietary software daily. Communicate with team members and other teams regularly to solve problems. Manage cases through Salesforce.



## EDUCATION

**Bachelor of Science, Computer Science**

GPA: 3.717

(Anticipated May 2022)

University of Pittsburgh School of Computing and Information

Notable coursework: Algorithm Design • Operating Systems • Deep Learning • Software Engineering

Coursework in progress: Web Programming • Cloud Computing

On the Dean's List for each semester.



## PROJECTS

### • Self-Hosted Server

- Host 2 websites, 3 discord bots, and 1 game server at home.
- Websites stream video to 50+ users.
- Running Ubuntu 18.04, Ubuntu Server 20.04.
- Uses `screen` to manage program instances.
- Wrote bash scripts to ensure 100% uptime.
- Currently migrating to a self-hosted, highly available Kubernetes cluster.

### • Discord Bots

- Written in Python using the `d.py` framework.
- Provides text-to-speech accessibility features.
- Enables music streaming, community polls, Markov chain text generation, and more.
- 3 bots deployed to over 400 daily users.
- Committed over 1,400 changes to the bots.

### • Project: *GhostWriter*

- Generates new song lyrics based on artists' previous works using statistics.
- Displayed at Frick Fine Arts, Oakland, PA.



## EXTRAS

**Mindful - Pitt Challenge Hackathon** October 2019

Collaborated with a team to design, plan, and develop a program to contribute to the health industry. We made *Mindful*, a browser extension to help people identify truthful, nontoxic results on their Google searches.

**Competitor, Heavyweight Robot Sumo** 2013 - 2018

Constructed robot chassis, wired electronic systems, and programmed microcontrollers to compete in Honda's National Robotics Challenge.

- Worked with systems that incorporated Arduino, LIDAR, IR, ultrasonic, RF, and electric motors.
- Placed first in heavyweight sumo in 2014.



## TECH

- Bash, CMD, Powershell, git
- Python, Java, C, C#
- html, CSS, PHP, JS
- SCSS/SASS, Vue.js, Bootstrap
- SQL, pandas, matplotlib, REST APIs