Benjamin Rucker

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PROFESSIONAL EXPERIENCE

Software Engineer Intern
May 2021 – August 2021
ERIE INSURANCE
Erie, PA

- Led and collaborated on software engineering to solve business problems on the Software Change Management team.
- Launched 6 feature showcases to onboard 2 engineering branches onto new GitLab features, with estimated savings of $10,000 a year in engineer-hours after feature adoption.
- Slashed the cost of GitLab licenses by releasing a full-stack license management tool in Python, PHP, JS, and SQL.
  - Streamlined the process for accessing GitLab by reducing redundant paperwork to 0.
  - Reduced cost of underutilized licenses by 75% to save the company $42,000 a year, with projected savings to exceed $100,000 a year.
  - Co-led a team of 3 to draft, design, develop, test, and deploy the website.

Undergraduate Teaching Assistant
Aug 2019 – Present
UNIVERSITY OF PITTSBURGH
Pittsburgh, PA

- Teach students Python, Jupyter, git, the command line, and software ethics—all from zero—in the intro course to the School of Computing and Information.
- Tutor students one-on-one during office hours to guide their understanding and lift their skills and grades.
- Authored a lecture about turning public data into choropleth maps using geopandas.
- Hold weekly meetings to discuss content improvements and teaching style effectiveness.

Remote Robot Technician L2
Jul 2019 – Aug 2020
BOSSA NOVA ROBOTICS
Leetsdale, PA

- Monitored over 30 autonomous robots remotely and guaranteed data delivery to clients.
- Performed diagnostic and forensic investigation on dozens of robot faults and Salesforce cases per day.
  - Done through a Linux shell, proprietary software, and custom-written Bash scripts.
- Co-led the KB Article task force to rewrite and vet all knowledge base articles, increasing article count by 100%.

EDUCATION

Bachelor of Science, Computer Science
Anticipated April 2022
UNIVERSITY OF PITTSBURGH
GPA: 3.717 Overall – 3.795 Computer Science

Notable coursework: Algorithm Design • Deep Learning (TensorFlow, Python)
Operating Systems (C, x86) • Software Engineering (Java, Agile, Scrum)
Coursework in progress: Web Programming • Cloud Computing

PROJECTS

Websites
September 2019, March 2021 – Present

- Developed 3 production websites from scratch using Vue.js and Bootstrap for mobile-friendly design.
- Streams video and multimedia content to 50+ users with a growing catalog of over 30 videos.
- Distilled 195,000 datapoints into a personalized, "Spotify Wrapped"-like experience for users, growing the userbase by 30 people and solidifying name recognition in anticipation of a 1.0 release.
- Supports rich embeds on Twitter, Facebook, Discord and more using PHP.

Discord Bots
June 2019 – Present

- Offers music streaming, polls, chatbots, and more through 75 unique commands.
- Provides 4 text-to-speech accessibility features to users who cannot chat through voice.
- Implemented comprehensive admin tools, reducing management time by 90% and increasing uptime.
- 3 bots deployed to over 400 daily users with over 1,000 commits pushed.
- Written 100% in Python with bash scripts to handle deployment.
- Scripts communicate with REST APIs and git.

Self-Hosted Server Architecture
January 2019 – Present

- Host 2 websites, 3 Discord bots, plex servers, and game servers at home, with plans to expand.
- Migrating to a self-hosted, highly available Kubernetes cluster using Docker.
- Web server functionality is handled with Apache on Linux.