Benjamin Rucker

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PROFESSIONAL EXPERIENCE

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
Ensure 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: 4.0 C.S.

(Anticipated May 2022)   University of Pittsburgh School of Computing and Information

Notable coursework: • Algorithm Implementation • Algorithm Design • Data Structures • Operating Systems •

Coursework in progress: • Web Programming • Deep Learning • Software Engineering •

On a rigorous accelerated class track for a Master in the subject. On the Dean's List for each semester.

PROJECTS

- **Discord Bot "JermaBot"**
  - Host a Discord bot with 50+ daily users.
  - Streams sound files on-demand, including text-to-speech as an accessibility option.
  - Provides an entertaining, text-based interface.
  - Language: Python
- **Discord Bot "Unanimism"**
  - Allows users to collaborate on constructing dynamic polls.
  - Learned how to unit test with this bot
    - Coverage at 55%
  - Language: Python
- **SongWriter**
  - Create new songs based on artists' previous works using statistics.
  - Program was displayed on the wall of Frick Fine Arts, Oakland, PA.
  - Language: Java, Processing
- **Geopandas lecture**
  - Wrote interactive curriculum to teach students how to turn public data into beautiful maps using geopandas.
  - Interact with the West Pennsylvania Regional Data Center to generate maps dynamically.
  - Language: Python

EXTRAS

Mindful - **Pitt Challenge Hackathon** October 2019
Collaborated with a team to design, plan, and develop a program to contribute to the health industry. *Mindful* is a browser extension that we made to help people identify truthful, nontoxic results on their Google searches.

Competitor, Heavyweight Robot Sumo 2013 - 2018
Constructed robot chassis and wired electronic systems 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.

SKILLS

- **Tech:**
  - Bash, CMD, Powershell
  - Python, Java, C, html, JS, CSS
  - RESTful APIs and frameworks
  - git, GitHub
  - SQL, pandas, matplotlib
- **Focuses:**
  - Software engineering, web dev, user experience
  - Data manipulation, visualization
  - Open source contributing