Brendan Burkhart

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EXPERIENCE

Pigmice Robotics, FRC Team 2733 (2016 - Present)

- Current Programming Team Captain
- Robotics programming using Java, Python, C and Arduino for 2016-2017 and 2017-2018 seasons.
- Developed lessons and tools to teach new team members programming, robotics and best practices.
- Used continuous integration and testing frameworks to tackle bugs before they made it into production.
- Community outreach - founding and guiding middle school Lego robotics teams.

Microsoft (2017)

- Worked with the Information and Content Experiences team.
- Week-long, unpaid internship.
- Frontend web development for MSN.
- Quickly picked up new technologies to create working products.
- Worked with both frontend and backend developers to create seamlessly functioning software.
- Experienced how professional software development teams work together to bring great software into the world.

PROJECTS

Peregrine — *Data and analytics app*

Progressive Web App for data collection and analytics at robotics competitions. Uses Go, PostgreSQL, and JWT for security.

Website: https://pigmice.ga
Code: https://github.com/Pigmice2733/scouting-backend

Otis — *Software for FRC robot (2018 season)*

Python software for the FIRST robotics 2018 PNW District Championships, capable of high speed autonomous navigation.

Code: https://github.com/Pigmice2733/frc-2018

SKILLS

Backend Web Development (Java, Go, PostgreSQL, Docker)

Robotics Programming (Java, C, Python, Arduino)

Database Administration (PostgreSQL, SQLite, Docker)

Teamwork and Project Management

Some experience in C#, C++, and Javascript

Always willing to pick up new tools as needed

EDUCATION

Cleveland High School, Portland, OR — 4.0 GPA

2016 - PRESENT

Relevant courses - all A grades:

- IB Physics SL
- IB Calculus SL
- Chemistry
- Intro to Computer Programming

INTERESTS

- Running
- Backpacking
- Rafting
- Mountain biking