# **Brendan Burkhart**

Portland, OR 97202 · (503) 753-3152 · brendan.f.burkhart@gmail.com

#### **EXPERIENCE**

## Pigmice Robotics, FRC Team 2733 (2016 - Present)

- Current Programming Captain
- Robotics programming and computer vision using Java, Python, C, and OpenCV for 2017, 2018, 2019 seasons.
- Backend RESTful web development using Go and PostgreSQL
- Development of lessons and tools to teach new team members programming, robotics and best practices.
- Continuous integration, unit testing, and integration testing to tackle bugs before they make it into production.
- Community outreach founded and guiding 5 middle school Lego robotics teams, and putting on robot demos meant to inspire the next generation of engineers, scientists, and creators.

## 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 Docker.

Website: https://peregrine.ga

Code: https://github.com/Pigmice2733/peregrine-backend

## **Scorpion** — *Software for FRC robot (2019 season)*

Java software for the FIRST robotics 2019 season, equipped with computer vision, automated high-precision, and high-speed control.

Robot code: https://github.com/Pigmice2733/frc-2019

Computer vision code: https://github.com/Pigmice2733/DeepSpaceVision

#### **SKILLS**

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

Robotics Programming (Java, C, Python, Arduino)

Computer Vision (Python, OpenCV)

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

### **PROFESSIONAL LINKS**

- GitHub
- My website
- LinkedIn

#### **EDUCATION**

## Cleveland High School, Portland, OR — 4.0 GPA

2016 - PRESENT

Relevant courses - all A grades:

- IB Physics SL
- IB Calculus HL
- IB Chemistry SL
- Computer Programming