

# justingallagher

computer scientist & software engineer

## contact

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## languages

★ C  
★ C++  
★ C#  
★ Java  
★ Javascript  
Python  
SQL  
SML

## technologies

Android SDK  
Windows SDK  
Node.js  
ASP.NET  
OpenGL

## applications

Git  
LaTeX  
Vim  
Microsoft Office  
Visual Studio  
Linux  
Windows

## interests

Firmware development  
Robotics  
Operating Systems  
Game Design

## education

2013–2016 **Carnegie Mellon University** Pittsburgh, PA  
Bachelor of Science, Computer Science & Business Administration Minor  
**GPA:** 3.83/4.00 **Dean's List:** Fall 2013, Fall 2014, Spring 2015  
2009–2013 **Phillips Exeter Academy**, English Diploma, *cum laude* Exeter, NH

## technical experience

since 2013 **CMU Biorobotics Lab**, Researcher for Dr. Howie Choset Pittsburgh, PA  
- Led a team of 3 students in planning and implementing firmware for JumpingBot, a robot which can self-stabilize in freefall.  
- Designed and programmed an Android application which allows realtime sensor data to be accessed in MATLAB and ROS.  
2015 **Microsoft Corporation**, Software Engineer Intern Redmond, WA  
- Designed and implemented a XAML analytics tool which allows hierarchical search of file structure.  
- Leveraged telemetry data to actively track application reliability for Windows Phone applications, leading to the discovery of a ship-blocking bug.  
2014 **Microsoft Corporation**, Explorer Intern Redmond, WA  
- Developed a dashboard for telemetry data, enabling managers to make actionable, data-backed decisions about Microsoft Office Online.  
- Worked on a team of 3 interns to create a responsive ASP.NET web application capable of accessing large amounts of SQL data.

## selected projects

2015 **tunemachine.co**, Andreesen Horowitz Battle of the Hacks 2.0 Menlo Park, CA  
- Implemented the backend for a Node.js web application which provides a version control system for Spotify playlists.  
2015 **course-api**, Scottylabs Pittsburgh, PA  
- Developed a set of Python scripts that provide developers access to CMU course schedules, descriptions, and student evaluations.  
2013 **CMUEats**, HackCMU Pittsburgh, PA  
- Wrote the backend for a web application that tracks the hours of CMU dining locations using Python, Django, and MongoDB – later ported to Node.js.  
- A year later, the app maintained more than 400 daily hits from students.

## other experience

since 2014 **Scottylabs** Pittsburgh, PA  
- Helped to organize and operate Tartanhacks, a hackathon of 350 students from the Pittsburgh area.  
2013 **Eagle Scout**, Boy Scouts of America Amherst, NH  
- Brainstormed, planned, and executed a service project that supplies used eyeglasses to developing countries. Over the course of the project, I raised more than \$650 and managed 38 volunteers.