

oscarbezi

web developer, devops, and roboticist

contact

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education

Carnegie Mellon University

BS in Computer Science, Robotics. Graduation: May 2017.

Pittsburgh, PA

tech experience

BreatheWise

2015-now. Pittsburgh, PA

Full Stack Contractor, Embedded Systems Developer.

- Built cloud infrastructure which aggregates data from hardware (ES6, React).
- Added data logging to firmware (C).

Microsoft Corporation

2015. Redmond, WA

Software Engineering Intern, Audio Quality

- Implemented generic Audio ETW event classification framework (C#).
- Voted best intern project, OSG SiGMA

ScottyLabs

2013-now. CMU (Student Org)

Director of Operations

- Operations: run and maintain ScottyLabs' servers and APIs.
- Tech: lead dev for TartanHacks ('15, '16), Print@ScottyLabs, APIs@ScottyLabs
- Leadership: lead three separate teams of students for the projects.

Biorobotics Laboratory

2013-now. Carnegie Mellon University

Embedded Systems, System Administrator. Working under Dr. Howie Choset

- Administrative work: managing new members and overseeing the JumpingBot group.
- Firmware development: rewrote firmware architecture to improve modularity, applied to all of the robotic platforms in the lab (C++).

select projects

APIs@ScottyLabs

2015. ScottyLabs (CMU)

- Designed and developed several APIs for CMU community data access.
- Released dining, directory, and course data for student use (Node.js, Google AppScript).
- Deployed the services and maintained uptime for long-term use.

TartanHacks Infrastructure

2014-2016. ScottyLabs (CMU)

- Built hacker registration, notifications, and resume aggregation (React, ES6).
- Deployed and managed operations with Nginx.

SEASnake

2014. CMU Biorobotics Lab

- Rewrote existing firmware architecture to use a modular driver system (C++).
- Applied the architecture to all of the robotics platforms in the lab.
- Implemented virtual x86 module for unit-testing firmware.

JumpingBot

2014-2015. CMU Biorobotics Lab

- Project manager: leading group of 5 engineering students.
- Developing firmware, prototyping with Arduino and 3D printed parts (C).

TuneMachine

2015. <http://tunemachine.co>

- Hackathon project to "version control" Spotify playlists.
- Developed Node.js backend and operations.

CMDragons

2014. CORAL Lab, CMU

- Added human control to soccer-playing robots' firmware (C++)
- Improving robots' team coordination by learning from human players

gitorial

2014. <http://gitorial.com>

- Generates tutorial blogs directly from Github repos.
- Developed Django backend, frontend logic in CoffeeScript, Handlebars.

TeXDown

2014. <http://texdown.org>

- LaTeX/Markdown editing platform for taking notes.
- Developed Node.js API on the backend, and JavaScript front-end logic.

programming

extensive

C
Javascript (ES6)
CSS, HTML
Bash

proficient

C++
CoffeeScript
C#
LaTeX
Matlab

miscellaneous

extensive

Node.js
Nginx
Linux

proficient

React
Flux
Gulp

hackathons

Battle of the Hacks
MHacks IV
HackPrinceton
HackCMU

talks

CClub Talk Series

Docker and Fig 101
CoffeeScript 101
Node.js 101

CrashCourse 2015

Intro to HTML & CSS
Advanced Vim Usage

WebDevWeeks 2015

Deploying Your Site