

# oscarbezi

full-stack software engineer

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http://github.com/bezi  
http://bezi.io

## languages

### extensive

Javascript  
C  
CSS, HTML  
Bash

### proficient

Python  
LaTeX  
Java  
Matlab  
C++

## technologies

### extensive

Node.js  
React  
Redux  
Linux

### proficient

Nginx  
Flask  
Gulp

## talks given

### 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

## hackathons

TartanHacks III\*, IV\*, V\*  
Battle of the Hacks '15  
MHacks IV  
HackPrinceton '13, '14  
HackCMU '13, '14\*, '15\*  
\*mentor

## education

**Carnegie Mellon University** Pittsburgh, PA

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

## tech experience

**ExpII, Inc.** 2017-now. Pittsburgh, PA

Software Engineering Contractor, web services.

- Added telemetry to monitor user engagement (Flask/React).

**HEBI Robotics, Inc.** 2015-now. Pittsburgh, PA

Software Engineering Contractor, web services and firmware.

- Created web platform to manage and deploy robot firmware (React/Node.js)
- Implemented decryption utilities in robot firmware (C)

**Microsoft Corporation** 2015. Redmond, WA

Software Engineering Intern, Audio Quality

- Built tool to better understand Windows audio state for debugging (C#)
- Voted best intern project, OSG SIGMA

**ScottyLabs** 2013-now. CMU (Student Org)

Director of Operations

- Operations: operated ScottyLabs' services which open data for the CMU community
- Tech: project lead for TartanHacks ('15, '16), Print@ScottyLabs, APIs@ScottyLabs
- Leadership: led 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, which allowed four separate hardware platforms to use the same firmware (C++)

## teaching assistant experience

**Robot Kinematics and Dynamics (16-384)** Fall 2016

- Wrote extensive background materials for student use
- Designed and tested six robotic arm manipulation labs to provide hands-on experience
- Held office hours and grading sessions

**Introduction to Robotics (16-311)** Spring 2015

- Updated homeworks with additional background materials and a standard presentation
- Designed and ran a computer vision lab, with rapid feedback from autograding
- Held office hours, ran weekly labs, and grading sessions

**Rapid Prototyping Technologies (15-294)** Fall 2016

- Assisted students during class with Solidworks, 3D printers, and laser cutters

## select engineering 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