

JAROD GOWGIEL

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EDUCATION

Tufts University, Medford MA (Anticipated graduation May 2019)

Bachelor of Science in Computer Science

GPA: 3.5, Dean's List Spring 2016, Spring 2017, Fall 2017

SKILLS

Programming: Advanced proficiency in Swift, Python, Javascript, C/C++, and HTML/CSS

Frameworks: Experience with React, Django, and Node.js

3D Modelling: Proficiency with Autodesk Inventor, Maya, Fusion 360, and 3DS Max

Languages: Conversational French

Other: Wilderness First Aid and CPR certified

RELEVANT EXPERIENCE

iOS Engineering Intern at Boomerang, Summer 2018

- Implemented a new front-end feature written in Swift for the Boomerang iOS app that displayed detailed information about the sender of an email to users
- Developed a standalone backend service written in Python for use with this feature to parse sender information about a given email address
- Created a sample iOS application from scratch to gain experience working on a standalone product, including backend database implementations using Python, frontend UI design and Swift coding

Print Quality Intern at Markforged, Summer 2017

- Diagnosed print quality issues by designing a series of test parts in Autodesk Inventor and Fusion 360 to give more detailed information about printing issues
- Applied the results of these tests in order to improve the motion of the 3D printer for all parts to remove unwanted surface marks from finished pieces
- Implemented numerous quality of life improvements to the online user experience using Javascript, HTML, and CSS by adding collaborative online print projects and Imperial unit support, among other bug fixes
- Refactored the print time estimation software using Python and mathematical models to increase the accuracy of the predicted print time for all parts by up to 20%

OTHER EXPERIENCE

Barista at the Rez Café, Fall 2016-present

- Responsible for maintaining a clean work environment and interacting with faculty, staff, students, and visiting alumnus and parents while preparing drinks

Design Lab Intern at the Oregon Museum of Science and Industry, Summer 2016

- Taught visitors to the museum of all ages about 3D printing and design through interactive demonstrations
- Repaired and performed upkeep on a variety of exhibits, including two 3D printers and other physical installations
- Created an interactive motion tracking exhibit to demonstrate the potential of emerging technologies

LEADERSHIP

President of Pi Rho Omega Fraternity, Spring 2017 – Fall 2017

- Responsible for coordinating with the Tufts Administration, providing a vision for the organization, and effectively managing the operations of the fraternity

Tufts Wilderness Orientation (TWO) Leader, Summer 2017

- Co-led a group of first year students through the backcountry on a five day backpacking trip, and provided medical care

Vice President of Programming for Pi Rho Omega, Fall 2016

- Planned internal and external social events and ensured a safe, enjoyable environment for all attendees

INTERESTS

Fabrication and tinkering: Worked extensively on creative personal projects including a 3D printed watch, disassembling and reassembling antique watch movements, and 3D printing the topography of the White Mountains in NH.

Hiking: Completed the 500 mile Camino de Santiago, member of Tufts Mountain Club and Tufts Wilderness Orientation.