

JAROD GOWGIEL

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EDUCATION

Tufts University, Medford MA (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 | 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 | 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, and then applied the results of these tests to improve the motion of the 3D printer for all parts and 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 | The Rez Café – *Fall 2016 - present*

- Maintained a clean work environment and interacted with faculty, staff, students, and visiting alumni and parents while preparing drinks

Design Lab Intern | Oregon Museum of Science and Industry – *Summer 2018*

- Taught visitors of 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 | Pi Rho Omega Fraternity – *Spring 2017 - Fall 2017*

- Coordinated with the Tufts Administration, provided a vision for the organization, and effectively managed the operations of the fraternity

Trip Leader | Tufts Wilderness Orientation – *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 | 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.