

Osamu Fujimoto

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Citizenship: Peru, Japan

Education

Rochester Institute of Technology

B.S, Computer Science

Research Advisor: Dr. Daniel Ashbrook

Rochester, NY

2014 – 2017

GPA: 3.06/4.00

Pontificia Universidad Catolica del Peru

Major: Electronic Engineering

Lima, Peru

2011 – 2012

Skills

Languages: Java, Python, JavaScript, HTML/CSS, C#, PHP, C and C++

Frameworks and Tools: Selenium, JUnit, Bootstrap, JQuery, D3.js, Laravel, Android Development, MySQL.

Technical: Git, Bash, AWS.

Experience

Future Everyday Technology Research Lab

Rochester, NY

Research Assistant

April 2015 – December 2017

- Developed an Android Application that identifies tags embedded in 3D-printed objects using machine learning.
- Wrote an editor to create and visualize 8-bit animations using JavaScript and JQuery.
- Improved legacy Android Application design by updating to Material Design standards and refactored code to use new Java 8 features (Streams, Lambda Expressions).
- Performed lab setup, calibration, and maintenance of the CNC router, 3D printers, and laser cutter.

CIASTech

Rochester, NY

Web Developer (Co-op)

January - August 2016

- Developed a new platform to manage the lockers and equipment inventory using Laravel and D3.js.
- Implemented SMS notifications using the Twilio API to alert the user when its assigned locker is expiring soon.
- Improved user experience by writing a D3.js custom visualization tool to view and select the available lockers.
- Executed and maintained Selenium automation scripts to test student and manager control panels.
- Built a prototype for SOFATube (video portal) to test different file upload frameworks (Fine Uploader, Plupload, FancyUpload, etc.) and database backends.

Grupo Harbour

Remote

System Administrator

January 2011 – December 2012

- Managed servers for a forum with 8 million users and 14 million posts (ranked top 50 Latin American websites by traffic by Alexa).
 - Updated and rewrote legacy code written in PHP to improve the overall performance.
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Dissemination

Papers

Tejada C., Fujimoto, O., Li, Z., & Ashbrook, D. (2018). *Blowhole: Blowing-activated Tags for Interactive 3D Models*. 44th International Conference on Graphics, Visualization Human-Computer Interaction, May 8-11, Toronto, Canada

Tejada C., Fujimoto, O., Li, Z., & Ashbrook, D. (2018). *Enabling the Fabrication of Smart Devices*. 6th Workshop on Interacting with Smart Objects, April 21st, Montreal, Canada

Posters

Tejada C., Fujimoto, O., Li, Z., & Ashbrook, D. (2017). *Blowhole: Blowing-activated Tags for Interactive 3D Models*. SHPE National Conference, November 1-4, Kansas City, Missouri

Projects

Central Fuse

<https://devpost.com/software/demo-hj51u>

- Built an internet-of-things Android app to simplify and centralize control of different Bluetooth-enabled devices.
- Won **Best Use of Spotify API Prize** at RIT's BrickHack '15.

New Tab (WIP)

<https://osamufujimoto.com/projects/homescreen-demo/>

- Chrome Extension to make a "new tab" more functional by connecting to the Todoist API and displaying weather information.