Osamu Fujimoto

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Education

Rochester Institute of Technology   Rochester, NY
BSc in Computer Science   August 2014 – December 2017

Skills

Languages: PHP, HTML/CSS, JavaScript, Python, Java, C and C++
Frameworks and Tools: Bootstrap, jQuery, D3.js, Laravel, Android Development, Numpy, Scikit, MySQL, MongoDB.
Technical: Wordpress, Git, Bash, AWS.

Experience

Future Everyday Technology Research Lab   Rochester, NY
Undergraduate Research Assistant   *April '15 – present*
- 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** for a Women in Computing Workshop.
- 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, College of Imaging Arts and Sciences (RIT)   Rochester, NY
Student Web Developer (Co-op)   *Spring & Summmer '16*
- Developed a new platform to manage the lockers and inventory using **PHP** (Laravel) and **D3.js**.
- Implemented SMS notifications using Twilio API to alert the user when its assigned locker is expiring.
- Improved user experience by writing a **D3.js** custom visualization tool to view and select the available lockers.
- Explored file upload frameworks (Fine Uploader, Plupload, FancyUpload, etc.) to be used in SOFAtube (internal video portal).

Grupo Harbour   Remote
System Administrator   *Jan '11 – Dec '12*
- 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.

Projects

Central Fuse
- 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.

ScheduleMaker Plus
- Wrote a Chrome extension in **JavaScript** that enhances CSH's ScheduleMaker by adding professor's reviews, overall rating and difficulty from ratemyprofessors.com in the same page.

Boundary Functions - Interactive Voronoi Diagram
- Used **OpenCV** to extract the position of the objects placed on top of an animated RGB display controlled by a computer.
- Implemented brute force algorithm and Fortune's algorithm using **Python** to compute the Voronoi diagram and benchmark the speed difference.

Leadership

Society of Hispanic Professional Engineers (SHPE)
Technical Chair   *Fall '15 – Present*
- Redesigned club website to highlight information about the chapter and current events.
- Helped to organize Noche de Ciencias, an event focused on K-8 to 12 students to promote knowledge and interest in STEM careers.