Robby A. Marver

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Education

University of Washington *Autumn 2014 – Present, Intended Graduation: June 2018*

Major: Computer Science **Minor:** Mathematics

GPA: 3.88, Dean's List Autumn 2014 – Spring 2016

Matriculated at the University of Washington through the UW Academy, an early entrance program for 16-year-olds.

Experience

Microsoft University SWE Intern, Microsoft Azure Media Services *Summer 2016*

- Designed high availability for AMS Streaming, which ensures that content will reach end-users in the event of a datacenter outage, that runs in amortized O(1) runtime.
- Implemented high availability in production for unprotected and protected content.

Technologies/Skills: C#, JSON, XML, Kusto Logs, HTTP Rest API

Undergraduate Researcher, Boeing Advanced Research Center *June 2015 – Present*

- Currently researching the effects packet delay has on the estimated position of human-controlled robots. Implemented a TCP server to control the robots and a webserver to accept human input, with the independent variable being packet delay. Set to co-publish research on Sept. 10th.
- Designed and implemented "RMP Controller", a GUI that communicates and controls an RMP Segway 400 Rover. Exported library commands to a LabView Node that is mounted on a myRIO controller for the rover.
- Assisted in hole/rivet detection for automated riveting in Python using OpenCV libraries.

Technologies/Skills: C/C++, Python, OpenCV, HTML/CSS, LabView

Academic and Personal Activities

CSE 14X Teaching Assistant, University of Washington *Autumn 2015, Autumn 2016*

- Grade weekly assignments, tutor students in the Introductory Programming Lab, and teach a weekly section as part of the TA Program.

Technologies/Skills: Java

Data Visualization Hacker, Helmet Hack 2.0 *Oneweek Hackathon at Microsoft 2016*

- Visualized live JSON data gathered from accelerometer and gyro sensors from IOTHub on VICIS Football Helmets through PowerBI Apps and Microsoft Azure Streaming Analytics.

Technologies/Skills: TSQL, JSON, PowerBI, Microsoft Azure Streaming Analytics

Android App Developer, Cloudbike ('15 DubHacks 4th Place Team) *Autumn 2015*

- Developed Cloudbike app for Android that is used to read in data from our Arduino tachometer or from a Microsoft Band.
- Added post-request functionality so that data is sent to Cloudbike's MongoDB server.
- Read more at our DevPost.

Technologies/Skills: Java, Android SDK, XML, Bluetooth

Skills

Proficient: Java, C/C++
Industry Experience: C#, Python, HTML/CSS, JavaScript, AngularJS
Familiar: OpenCV, jQuery, Android SDK, LabView, Arduino
Other: Machine Shop Certified for the Dept. of Mechanical Engineering at UW.