

DEBOSMIT RAY

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QUALIFICATIONS/ SKILLS

- Java and C development
- Knowledge of scientific computing algorithms, efficiency of scripts
- Computer Design and Organization, Microcomputer Systems
- Python, Matlab, Octave
- FPGA Programming; Verilog, PSpice, Multisim and Altera Quartus
- Image Processing and Computer Vision
- HTML5, CSS3, PHP, JavaScript, JQuery, Ajax, XML, Wordpress, MySQL
- Computer Architecture, Shell scripting, Hardware/Software Interface
- Machine learning, deep learning
- Experience with cloud platforms: Google Cloud, Microsoft Azure
- Operating Systems: Mac OS X, Windows, Linux

EDUCATION

University of Washington, majoring in Electrical Engineering and minoring in Mathematics

- Graduated in June 2015
- Concentration: **Embedded Systems** (EE)
- Annual Dean's List: 2013-2014, 2014-2015

WORK EXPERIENCE

Research Internship, Seattle, WA

June 2014 - January 2015

- UW Bio-Engineering - Image processing project at the Wendy Thomas Lab, to classify position of beads in 3D plane based on data and z-stack images; research paper to be published.

Research Internship, Seattle, WA

October 2014 - January 2015

- UW Economics - Developed games to study an individual's motivation to work hard in a risk-protected environment; research paper to be published.

Sensei

December 2014 - March 2015

- Wearable device to model, analyze and improve performance in swing-based sports; wearable sensor and mobile app currently being developed as part of Hardware/Software capstone. [\[video\]](#)

Genie

December 2014 - Present

- Deep learning tool to generate human readable sentences from images using a combination of RNN and CNNs. [\[genieapp.xyz\]](#)[\[video\]](#)

LEADERSHIP EXPERIENCE

• **Chair**, IEEE-HKN

June 2014 – June 2015

- ✓ Organizing events for students in EE and CSE, University of Washington.

• **Member**, Senior Class Gift Council

October 2014 – June 2015

- ✓ Planning, choosing and implementing class' gift to the University of Washington, and delivering a speech at commencement.