William Thing

2339 41st Ave E · Seattle, WA 98112 · 206-335-9110

wthing@uw.edu · **Github**.com/williamthing · **Linkedin**.com/in/williamthing

EDUCATION

THE UNIVERSITY OF WASHINGTON
Bachelor of Science in Electrical Engineering, Minor Computer Science, Anticipated Graduation: Spring 2016
Focus in Software Engineering and Embedded Computer Systems
Major GPA (4.0 Scale): 3.5

Relevant Coursework: Data Structures and Algorithms, Software Concepts & Tools, Java I, Java II, Database Systems, Web programming, Circuit Theory, Signals & Systems, Digital Circuit Programming

SKILLS

- Languages: Java, Python, C, JavaScript, CSS, HTML, SQL, MySQL
- Experience in: Open source, Bash, Command Line, Cmd, Unix, Linux, Windows
- Tools: Eclipse, Intellij, Git, Microsoft Office Suit – Word, Excel, PowerPoint
- Strong Object-Oriented Programming, Data Analysis, Leadership, Communication skills

PROFESSIONAL EXPERIENCE

University of Washington Instructional Center, *Computer Science Tutor* **Dec 2014 - Present**

- Instructed computer science workshops covering major topics in Object-Oriented Programming such as: Inheritance, Objects, compile/runtime errors, comparable, binary tree, and binary search in Java.
- Taught coding fundamentals including efficient program structure and commenting.
- Coached students in a one-on-one environment to help with deficiency in coding.

UW Information Technology Department, CSS, *Preventative Maintenance* **Feb 2014 - Mar 2015**

- Improved classroom support and services focused on resolving and updating asset issues.
- Identified inefficient points in CSS system, system attribute opportunities, and analysis on asset system.
- Performed updates and repairs on classroom technology in routine check-ups such as: computers, projectors and media equipment.

PROJECT & ACADEMIC EXPERIENCE

University of Washington EcoCar Electrical Team, *Electrical Engineer* **September 2014 - Present**

- Improved the Hardware-In-the-Loop (HIL) and Controller Area Network (CAN) project.
- Simulated and tested application software and diagnostic functions of electronic control units of a hybrid car.
- Programmed in C the embedded systems of charging management system through the design of O2C2.

University of Washington Photonics Lab, *Undergraduate Research Assistant* **May 2014 - Jan 2015**

- Researched and developed more flexible semiconductors for UV photo sensor devices.
- Prepared and processed micro fabrication of ZnO quantum dots used in photonics research.
- Programmed Virtual Instruments on LabView to analyze IV characteristics and other quantities of devices.

Huffman Encoder, *Java*

- Implemented Huffman coding through an algorithm to encode and decode text and reduce the memory size of text files.
- Organized the frequency of characters in a given text file using a priority queue. Created the Huffman tree to encode given files. Methods include taking an encoded file and decrypting it in a new file with the decoded text.