

# William Thing

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## EDUCATION

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### THE UNIVERSITY OF WASHINGTON

Bachelor of Science in Electrical Engineering, Minor Computer Science, 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 and Tools, Java I, Java II, Database Systems, Hardware/Software Interface, Computer Design, Web Programming, Circuit Theory, Digital Circuits

## SKILLS

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- Languages: Java, Python, C, JavaScript, HTML, CSS, SQL, MySQL
- Frameworks & Platforms: Django
- Experience in: Software Systems, Relational Databases, Software Design, Agile, Scripting, Linux, Unix, Windows
- Tools: AWS, VMware, Azure, Eclipse, Git, Microsoft Office – Word, Excel, PowerPoint
- Strong Object Oriented Programming, Data Analysis, Leadership, Communication skills

## PROFESSIONAL EXPERIENCE

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| <b>CloudBolt Software, Inc.</b>  | <b><i>Software Engineer Intern</i></b> | <b>May 2015 - Present</b>   |
| <ul style="list-style-type: none"><li>• Developed new product features and enhancements on a small agile team</li><li>• Redesigned and implemented CloudBolt's Continuous Infrastructure Testing platform</li><li>• Improved Continuous Integration through application tuning, test automation and performance code review</li><li>• Assisted in QA, fixed product bugs, and all phases of the software development life cycle.</li></ul>   |  |                             |
| <b>UW Instructional Center</b>   | <b><i>Computer Science Tutor</i></b>   | <b>Dec 2014 – June 2014</b> |
| <ul style="list-style-type: none"><li>• 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.</li><li>• Taught coding fundamentals including efficient program structure and commenting.</li><li>• Coached students in a one-on-one environment to help with deficiency in coding.</li></ul> |  |                             |
| <b>UW Information Technology</b>   | <b><i>Preventative Maintenance</i></b> | <b>Feb 2014 - Mar 2015</b>  |
| <ul style="list-style-type: none"><li>• Improved classroom support and services focused on resolving and updating asset issues.</li><li>• Identified inefficient points in CSS system, system attribute opportunities, and analysis on asset system.</li><li>• Performed updates and repairs on classroom technology in routine check-ups.</li></ul>   |  |                             |

## PROJECT EXPERIENCE

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|---|--------------------------------|---------------------------------|
| <b>UW EcoCar Electrical Team</b>  | <b><i>Systems Engineer</i></b> | <b>September 2014 - Present</b> |
| <ul style="list-style-type: none"><li>• Improved the Hardware-In-the-Loop (HIL) and Controller Area Network (CAN) project.</li><li>• Simulated and tested application software and diagnostic functions of electronic control units of a hybrid car.</li><li>• Programmed in C the embedded systems of charging management system through the design of O2C2.</li></ul> |                                |                                 |
- 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.