

# Wenlu Cheng

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## Objective:

Seeking a challenging **Software Development Internship** position for Summer 2016.

## Summary of Qualifications:

- Proficient in Java, Python, C, JavaScript (jQuery), HTML5 / CSS3, XML, Git, Verilog HDL, ModelSim, Shell Scripting and programming under Windows/Linux/Mac OS platforms.
- In-depth knowledge of algorithms, data structures, database management and object-oriented programming.
- 3 years' experiences in designing, developing, and testing computer-based hardware and software.
- Work well individually and on team with diverse populations, adaptable and strong communication skills.

## Education

### **University of Washington, Seattle**

**B.S.E. in Electrical Engineering with Minor in Mathematics.** GPA: 3.7/4.0, Expected Mar 2017

**Relevant Coursework:** Java Programming, Data Structures & Algorithms, Web Programming, Digital System Programming, Database Management, Hardware/Software Interface, Unix Systems, Programming Concepts and tools, Computer Architecture, Embedded Computer Systems, Computer Networks, Technical Communication.

## Professional Experience

### **Software Engineer Intern, Nokia Networks**, June 2015 – Sep 2015

- Implemented new APIs to speed up the comparison of different network Gateways to improve efficiency.
- Wrote parsers to transform data in XML, JSON and worked on database management.
- Developed new testing algorithms as required and generated report documents.
- Created and administrated a file sharing page to improve team collaboration.

## Activities

### **2015 Seattle Codeday Hackathon (First Place)**

(Node.js, JQuery, HTML5/CSS3)

- Worked in a team of 4 people and intricately developed a web app that served as a platform for those with common interests.
- Designed the webpage, worked on the front end and contributed to database design and management.
- Presented teamwork and performed a demo to more than 200 audiences and judges.

### **2015 Dub Hacks**

(Python, C, Node.js, Arduino)

- Built both software and hardware of a smart Frisbee that displays its fly trajectory on a website.
- Wrote python program and displayed its trajectory by plotting the coordinate data sent from hardware.

## Representative Projects

- Database For A Movie Theater
  - Designed and implemented a database management system for a movie theater. Embedded database connection to Microsoft Azure with SQL queries in Java programs.
- Memory Allocator
  - Implemented C library Function Malloc in double-linked lists.
- Name Search Web
  - Developed a website shows statistical information related with searched. Implemented graphical display in JavaScript with JQuery, handled request/ response with Ajax and transferred data in JSON.