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WENLU CHENG

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PROFESSIONAL EXPERIENCE

Website Administrator, *Intern*   **CITIC Bank**   **Summer 2012**
IT Department

- Operated and updated the websites for the bank.
- Assisted and edited the updated contents and used SQL query to save them into database.

EDUCATION

Seattle, Washington   **University of Washington**   **Fall 2013 – Mar 2017**

- B.S.E. in Electrical Engineering with Minor in Mathematics. GPA: 3.7.

- Relevant Coursework: Java Computer Programming, Data Structures and Algorithms, Web Programming, Digital System Program and Design, Introduction to Database System, The Hardware/Software Interface, Java Software Design, Unix System and Software Tools.

TECHNICAL EXPERIENCES

Projects

- **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.

- **Memory Manager, *C and Linux.***
  Implementation of C library Function Malloc. Handles the request of memory allocation and arrangements of memory blocks within a threshold; reducing computation cost.

- **Searching Webpage of Name and Population, *JavaScript and PHP and HTML and CSS.***
  Built a web page that displays graph representations of the population and meaning of a searched name from data provided by Social Security Administration.

- **Tank Battle Online Game, *Java Socket and SQL.***
  Implemented tank battle game in Java based on Java GUI and Socket I/O.

ADDITIONAL EXPERIENCES AND AWARDS

- **Education Volunteer**: Helped the Confucius Institute of the State of Washington to organize the 14th Chinese Bridge-Chinese Proficiency Competition for College Student.
- **Dean's List:** Honored for high scholarship and inclusion on the Dean's List of University of Washington.

Languages and Skills

- **Languages**: C; Java; JavaScript; SQL; XML; PHP; HTML; CSS
- **Tools**: IntelliJ IDEA; Eclipse; Microsoft SQL Server; Pig Latin; Git; Microsoft Office Suit – Word, Excel, PowerPoint
- **Software Design**: Strong in Algorithms Problem Solving ,Object-Oriented Design and Software Design Patterns