Johan Boll

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Objective
Seeking experience to help me progress my software engineering skills and develop professional work qualities.

Education

AUGUST 2017 - JUNE 2021

University of Washington, Seattle – *Bachelor of Science* Computer Science (GPA – 3.87)

- **Annual Dean's List**: 2017, 2018, 2019
- **Relevant Coursework**: Systems Programming, Software Implementation, Hardware/Software Interface, Data Structures & Parallelism, Matrix & Linear Algebra, Foundations of Computing I & II.

Projects

HuskyMaps - Coded full-stack operations of a direction mapping program of the UW campus. Created back-end functionality in **Java** by implementing my own Graph ADT and Dijkstra's graph pathfinding. Built a GUI in **React** using **Typescript**. Transfered data between Java and React by creating a server using **Spark**.

Seam Carving - Created an algorithm in **Java** that resizes images applying content aware scaling. Accomplished by generating a graph with vertices of pixels and edge weights of energy (importance) and applying an A* shortest path algorithm to find and then remove the seam of least importance.

Search Engine - Using **C++,** given a directory, crawled and parsed every file in the directory and stored an inverted search index onto disk. Created a server online that enabled clients to interact with a search shell to query the inverted index.

Skills

Programming Languages - Java, C, C++, React, Typescript/Javascript, Spark, Swift, Xcode, Python, Linux.
Computer Programs - Word, Excel, PowerPoint, Google Groups
Foreign Languages - Dutch

Experience

SEPTEMBER 2019 - JANUARY 2020

University of Washington Copy Center, Seattle – Student Worker

- Worked directly with clients to turn custom print requests into high quality finished products.
- Developed organization skills and learned the importance of attention to detail.

JUNE 2018 - AUGUST 2018

Washington State University, Pullman – Lab Technician

- Tested composite samples, operated and maintained lab equipment.
- Refined communication and collaboration skills and advanced Excel operations.

Leadership

MAY 2018- MAY 2019

Kappa Sigma Fraternity, Seattle – President

- Overlooked all fraternal operations, managed a quarterly budget of over $90,000, ran meetings, planned events, led over 50 men.
- Member of the Interfraternity Council's legislative body, governing all fraternal life at UW.
- Founders Award of Chapter Excellence (2018) awarded to the University of Washington Kappa Sigma Chapter during my presidency. Awarded to the top 5% of Kappa Sigma chapters.

Activites

- Over 300 hours of community service since Fall 2017 (OpRed Dinner, MS Walk, EarthCorps, Hot Chocolate Run, Green Seattle Partnership, Relay For Life, WOU Food Pantry).
- Participated in Intramural Soccer, Volleyball, Football, Frisbee and Softball.
- Hobbies: Piano, Chess, Running, Golf, Soccer and Ice Hockey.