KELLY SONG

A Computer Science graduate student with a proven track record looking to grow and apply multidisciplinary skillset in a software development internship.
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EDUCATION

Northeastern University – Seattle, Washington, 2019 - Present
Master of Science, Computer Science Degree in Progress
- Cumulative GPA: 4.0
- Activities and Honors: Grace Hopper Celebration of Women in Computing Scholarship Recipient, Women in Tech Officer, Google Developer Student Club

University of Washington – Seattle, Washington, 2011 – 2015
Bachelor of Arts, Biochemistry
- Activities and Honors: Cycling Team, Women's Rowing Team, Dean's List, Director of Athletics Honor Roll

TECHNICAL SKILLS

- Languages: Java, Python, JavaScript, HTML, C/C++
- Tools/Skills: AWS Cloud Platform, Object Oriented Design, JUnit Testing Framework, PyTorch, IntelliJ, Git, CLion
- Operating Systems: Windows, Android, Linux
- Areas of Interest: Machine Learning, Cloud Computing, Computer Vision

PROFESSIONAL EXPERIENCE

Software Engineering Intern, Echodyne Corporation – Seattle, Washington, Summer 2020
- Rescinded due to COVID-19.

Graduate Teaching Assistant, Northeastern University – Seattle, Washington, Spring 2020
- Acted as a teaching assistant for graduate level Object Oriented Design course.
- Provided office hours, graded homework and exams, and supported students and instructors.

Laboratory Andrologist/Research Technologist, University of Washington Medicine – Seattle, Washington, 2017 – 2019
- Worked closely with a cross functional team of students, scientists, engineers, and clinicians.
- Developed expert microscopy skills to perform microsurgical and laboratory procedures on live specimens for research, cryopreservation, and Assisted Reproductive Technology.
- Co-authored a research article currently being under review for publication with the Gold Journal.

PROJECTS

Cloud Architecture Solution (Amazon AWS Academy Cloud Architecting Course, June 2020)
- Acted as Solutions Architect and migrated a medical startup's on-premises infrastructure to a cloud-based solution developed on AWS best practices, customer requirements, and regulatory compliance standards.
- Designed for high availability, scalability (with the ability to instantly double server capacity for demand spikes), fault tolerant, and cost efficient.

CyberForce Competition (US Department of Energy National Laboratory, November 2019)
- Competed with four teammates on a "Blue Team" in an information security competition focused on the defensive/hardening nature of energy cyber infrastructure.
- Hardened virtual machines on Microsoft Azure with various operating systems (Windows, Ubuntu, Centos, Devian, Linux) and secured them along with our Nginx web server and MySQL database from "Red Team" intrusion.
- Ran shell scripts to auto update passwords and securely SSH into the virtual machines.

Chatroom Client and Server (Northeastern University – Program Design Paradigms, Fall 2019)
- Developed a chatroom server and client programs with socket programming in Java.
- Utilized multithreading to allow for many concurrent clients to logon/logoff to a server, send private/broadcast messages, and view the other clients in the chatroom.
- Harnessed object-oriented design principles to implement all classes and executables and used JUnit unit testing framework as well as end to end integration testing.

Impact Innovation Challenge Hackathon (University of Washington Impact++, May 2019)
- Competed in an impact driven hackathon focused on leveraging technology for social good, specifically in addressing homelessness, housing, health, and safety issues in Seattle.
- Worked on a team of 6 to create and pitch: The Pink Box, a subscription service that pings subscribers via text and email when a free hygiene donation is made.
- Implemented front-end with JavaScript, HTML, and Vue; used SQLite to manage database; linked database to website, responding to get and post with Python.