SIMON H. KIM

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SKILLS

Proficient in: Java, Python, C++
Familiar with: JavaScript, HTML, CSS, jQuery, C#, SQL
Tools: Git, AWS, Eclipse, Linux, JUnit, JMeter

WORK EXPERIENCE

Houghton Mifflin Harcourt, Boston, MA *August 2015 – Present*
Associate Software Engineer

- Test and analyze the result of load testing that simulates thousands of users using the web app simultaneously with varying behavior.
- Identify a bottleneck for scaling web app and tune database and app nodes on AWS for high availability.
- Write a dynamic load testing script for various components of the core EdTech product using JMeter.

Lockheed Martin, Moorestown, NJ *June 2014 – August 2015*
Associate Member Engineering Staff

- Collaborated with other senior software engineers to develop and maintain digital radar simulation software in C++.
- Wrote unit tests in C++ using Google Code and fixed various kinds of bugs using a static analysis tool.
- Implemented simple interface to interact with FPGA and GPU using provided API to be used for debugging.
- Trained 4 new team members to bring them up to speed for software development and agile process.

Boston University, Boston, MA *September 2013 – May 2014*
Teaching Assistant

- Assisted a class of 120 students with C++ programming assignments in weekly lab sessions and office hours.
- Wrote up solutions for assignments and graded homework submitted by students with helpful feedback.
- Attended staff meetings, and helped professor and other assistants with course materials and future assignments.

PROJECTS

Finding Waldo *July 2016*

- Used Python, NumPy, and OpenCV library to find Waldo in the popular "Where's Waldo?" puzzle.
- Implemented a red-and-white stripes matching algorithm by using various image processing techniques such as template matching, erosion, dilation, and color detection.

Cloud 3D Scanner *September 2013 – May 2014*

- Designed a working system that scans an object using Kinect and creates a 3D printer compatible file.
- Created a desktop app (Windows Presentation Foundation) that is used to guide user through scanning phase.
- Used Windows Azure (Microsoft's cloud service) for processing and storing the output file.

EDUCATION

Georgia Institute of Technology (Online) Atlanta, GA
Master of Science in Computer Science 2016 – 2019
Part-time

Boston University College of Engineering Boston, MA
Bachelor of Science in Electrical Engineering 2010 – 2014
Minor: Computer Engineering
GPA: 3.59/4.00
Magna Cum Laude, Dean's List for all semesters

Relevant Coursework
Software Design, Database, Operating Systems, Computer Organizations, Applied Algorithms, Software Development Process, Computational Photography, Computer Networking, Machine Learning for Trading