

Jaewoo Kim

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EDUCATION

University of Illinois at Urbana-Champaign

Master of Computer Science with Thesis, May 2020

GPA: 3.91/4.0

Bachelor of Science in Computer Science, May 2018

GPA: 3.84/4.0

SKILLS AND ABILITIES

Programming: Python, C++, C, HTML/CSS, Java, JavaScript, R, Bash, SQL

Frameworks/Tools: D3, React, Redux, Flow, Scikit, Postgres, Travis CI, Tableau, Flask, Firebase, Protractor

Cloud Technologies: Amazon S3, Amazon CloudFront, AWS Lambda, AWS SQS

Coursework: Data Structure, Algorithms, Machine Learning, Database Systems, Systems, Data Visualization

EXPERIENCE

Amazon Web Services

Seattle, WA

Software Development Engineer Intern (AWS Marketplace)

May 2019 – August 2019

- Developed a tool for AWS marketplace customers to calculate custom service deployment configuration costs.
- Displayed project ownership by writing a design doc for each technology stack.
- Implemented backend code to dynamically fetch and process software/infrastructure rates.
- Implemented frontend code to provide UX that raises the bar of the AWS marketplace website.
- The tool impacts more than 60% of the products available in the AWS marketplace catalog.
- My project was selected to be presented to the Director of Engineering.

Department of Computer Science

Champaign, IL

Graduate Teaching Assistant, Data Structures (CS 225)

August 2018 – Present

- Leading 80 students through programming exercise to solidify their knowledge of data structures.
- Contributed to course development by improving course material.

Data-People Group (Zenvisage)

Champaign, IL

Research Assistant

January 2017 – Present

- Zenvisage is a data visualization tool that automatically identifies and recommends visualizations that match desired user patterns. URL: zenvisage.github.io/
- Utilized Angular.js and D3.js to dynamically visualize data.
- Developed dynamic faceting which bucket data into categories set on the fly for insights on data distribution.
- Automated and scaled user data upload process by detecting data types in uploaded datasets.
- Worked with domain experts in material science, genetics, and astrophysics in a participatory design process to develop Zenvisage++, leading to a publication under submission. URL: arxiv.org/pdf/1710.00763.pdf
- Researched new data analysis techniques for scatter-plots. URL: jaewoo.info/TechReport.pdf
- Performed end-to-end testing (Protractor) and contiguous integration (Travis CI) to improve code robustness.

Republic of Korea Army

Seoul, Korea

Sergeant, United States Forces Korea

September 2014 - June 2016

- Served as a public relations specialist to support communication and teamwork between the ROK-US alliance.

PROJECTS (GITHUB.COM/JAYWOO123)

Shell

March 2018

- Created a unix shell interpreter (e.g., bash, csh etc.). The basic function of this program is to accept commands as inputs and execute the corresponding programs in response.

Teammatcher WebApp

March 2017

- Implemented a recommender system to recommend students with academic projects based on mined data of their interests and past work. (URL: youtube.com/watch?v=lyj0IVnseII)