Ann Arbor, MI
(734) 756-3712

ANDREW D. KIM

andrewdkim47@gmail.com
Git/LinkedIn: andrewdkim47

EXPERIENCE

Software Engineer, Intern **Capital One** **Summer 2020**

Jigsaw Service Hub

- Worked on a Full Stack development team within Risk Tech to design a one-stop web app that reduces Capital One's data pipeline process from 8 business days to 6.
- Integrated with React/Redux, Node/Express, Postgres, REST APIs and more, to create a scaled app that can handle billions of data entries without the user experiencing delays.
- Collaborated with Risk Data analysts and product owners to ensure Service Hub's design optimizes pipeline flow and caters to users for intuitive use.

Full-Stack Web Developer **University of Michigan, CAEN** **Spring 2020 - Present**

CAEN View

- Developed a streamlined, multi-user web app that allows Michigan Engineering Staff to quickly schedule rooms and control all lecture hall components such as projectors and mics.
- Built with React/Redux, Node.js, MySQL, and utilized socket programming to optimize Michigan classroom scheduling workflow.

Software Developer, Intern **Harman International** **Summer 2019**

- Designed automation scripts for Harman's infotainment system and reducing overall testing time by reworking script architecture and eliminating redundancy.
- Crafted scripts using Python and RobotFramework; Being used by all Harman automation teams.

PROJECTS

- **Autoencoder** (2020). Built a TensorFlow/Keras autoencoder that uses machine learning methodology to compress data into a smaller scale version and decodes it back to an accurate representation of the original.
- **Custom Thread Library** (2020). Designed a user-friendly thread library in C++ that includes threads, mutexes, and conditional variables; Worked with PImpls, RAII wrappers, and Linux ucontexts.
- **Covid-19 Stock Visualizer** (2019). Programmed a stock fluctuation visualizer that creates a graph based on a specific company's stock changes during Covid-19 developments. Developed in Python.
- **Silly Query Language** (2018). Created a relational database using structs and maps to quickly edit, insert, update and modify data in C++.

EDUCATION

University of Michigan **Ann Arbor, MI** **Fall 2017 – Spring 2021**

- **B.S. in Computer Science**, Minor in Music. Graduating April 2021, GPA: 3.54
- **Relevant Coursework**: Data Structures and Algorithms; Operating Systems; Web Systems; Computer Vision.
- **Yonsei Study Abroad Program** in Seoul, South Korea, Summer 2018

SKILLS

- **Proficient:** C++/C, React.js, Python, Git, Command Line, HTML/CSS, Agile Process Flow
- **Familiar With:** Node/Express, AWS, MySQL, TensorFlow, Postgres, Java, R Commander, RobotFramework
- **Other:** Latex, SourceTree, Github, Microsoft Office, Korean (Fluent), Adobe Creative Cloud

INTEREST AND ACTIVITIES

- **MHacks – Sponsorship Coordinator:** Collaborated with peers to run the largest student hackathon in the US.
- **Seoul Juice – President:** Lead a Korean American music group to perform at cultural events.
- **Enjoy:** Music producing, Dancing, Video Games, The Office, Soccer, Volleyball