Joseph Kim (Young Chan)
Software Engineer

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EDUCATION

Carnegie Mellon University
May 2020 | Pittsburgh, PA
- **MS** Electrical & Computer Eng.

May 2019 | Pittsburgh, PA
- **BS** Electrical & Computer Eng.
- **BS** Computer Science
- **GPA** 3.55

COURSEWORK

15-410	Operating Systems Design
15-410	Par. Comp. Arch. & Prog.
15-440	Distributed Systems
15-451	Alg. Design & Analysis
18-645	How to Write Fast Code
15-210	Parallel & Seq. Algorithms
18-487	Computer Security
10-601	Machine Learning
15-455	Complexity Theory

SKILLS

Python	C
x86 Assembly	SML
Java	Matlab
Verilog	Git
CUDA	Go
React	Reflux

LEADERSHIP

Carnegie Mellon University
Orientation Counselor
Aug 2017 | Pittsburgh, PA
- Mentored a floor of over thirty first-year students for a week

Asian Students Association
Public Relations Chair
Jan- Dec 2016 | Pittsburgh, PA
- Recruited new members by advertising online, reaching out to individuals and hosting events
- Ran weekly events with the Public Relations Committee

EXPERIENCE

Jump Trading Incoming Software Developer Intern
Sept 2019 - Nov 2019 | Chicago, IL

Airbnb Software Developer Intern
June 2019 - Aug 2019 | San Francisco, CA
- Designed and implemented a service to apply time-based autoscaling policies on Elastic Map-Reduce clusters from scratch
- Collaborated with the Infrastructure team to review design and ensure smooth integration with other components

Redfin Software Developer Intern
May 2018 - Aug 2018 | Seattle, WA
- Coordinated and developed a feature to recommend new homes
- Implemented a new email design for better UX and response rates
- Worked with designers & project managers to ensure product quality

BNY Mellon Summer Technology Analyst
June 2017 - Aug 2017 | Pittsburgh, PA
- Developed a fullstack webapp to manage a client information database
- Integrated a REST API to convert requests in JSON to MySQL

Carnegie Mellon University Teaching Assistant
Aug 2016 - Dec 2017 | Pittsburgh, PA
- Instructed students in recitations, office hours and review sessions
- Mentored 10 students on a 3-week term project

Carnegie Mellon University Research Assistant
May 2016 - Aug 2016 | Pittsburgh, PA
- Researched context-based color segmentation using neural nets
- Cretaed a tool to index images in the YUV color space for training sets

PROJECTS

Guitar Effects Pedal Simulator Jan 2019 - May 2019| Pittsburgh, PA
- Developed a desktop app that allows users to simulate custom built circuits against pre-recorded or live guitar
- Received honorable mentions from Apple at the Capstone Fair

Unix-like Operating System Mar 2018 - Apr 2018 | Pittsburgh, PA
- Designed and implemented an x86 OS, supporting virtual memory address space, preemptive multithreading and a set of system calls
- Implemented two different user-level thread libraries that could run on the operating system

AI for Deterministic Games Dec 2016 | Pittsburgh, PA
- Mini-max, alpha-beta and jamboree implementations for a zero-sum game AI.