

# Joseph Kim (Young Chan)

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**EDUCATION** **Carnegie Mellon University**, Pittsburgh, PA Expected May 2019  
Bachelor of Science in Electrical & Computer Engineering | Minor in Computer Science  
3.77/4.0 GPA cumulative

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**RELEVANT COURSES**

Introduction to Computer Systems	Principles of Functional Programming	
Parallel & Seq. Data Structures & Algorithms	Structure & Design of Digital Systems	
Computer Vision	Intro. to Computer Security*	*- Spring 2017

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**EXPERIENCE** **Bank of New York Mellon**, Pittsburgh, PA June - Aug 2016  
Summer Analyst Program

- Worked full-stack on a webapp that manages a client information database.
- Developed a REST API that sends MySQL requests to the database and returns existing or updated data in JSON format for the AngularJS frontend.

**School of Computer Science**, Carnegie Mellon University Aug 2016 - Present  
Teaching Assistant for 15-112: Introduction to Programming

- Instruct students in recitations, office hours and review sessions
- Mentor 10 students on a 3-week term project by giving suggestions and guidance.

Research Assistant May - Aug 2016

- Researched ways to color segment images using neural nets, which determines color boundaries on contexts such as lighting.
- Created a program using openCV that manually indexes YUV images and create training sets, which were used for the neural network.

**Daewoo Appliances**, Gwangju, Korea June - July 2014  
Intern

- Repaired various broken appliances and documented files electronically.

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**PROJECTS**

**Multi-threaded Proxy** Dec 2016

- A concurrent proxy that handles GET requests & utilizes a software cache.

**AI for Deterministic Games** Dec 2016

- Mini-max, alpha-beta and jamboree implementations for an AI that works for any zero-sum game, given a proper estimator.

**Dynamic Memory Allocator** Nov 2016

- Allocates memory with a 4-byte header, 16 byte alignment and works for up to a 64 bit virtual address space.

**Rhythm Game Project** Nov - Dec 2015

- A rhythm game in written in Python using Librosa and Pygame; the game lets users upload their own songs to be analyzed and played.

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**LEADERSHIP** **Carnegie Mellon University**, Pittsburgh, PA August 2017  
Orientation Counselor

**Asian Student Association**, Pittsburgh, PA Jan - Dec 2016  
Public Relations Chair

- Recruited new members by posting online, reaching out to individuals and hosting events every week, which increased membership and turnout.
- Managed Public Relations Committee by delegating work, which allowed for more events to be executed throughout the semester.

Booth Stool Nov 2015 - April 2016

- Worked with the chairs in leading the building of a Spring Carnival Booth, a two-story, 18x18 ft thematic building, and did much of the electrical work.

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**SKILLS** **Programming:** Python, C, Matlab, SML, x86 Assembly, HTML/CSS, AngularJS, SystemVerilog, Java, MySQL  
**Languages:** English (Native), Korean (Native), Chinese (Elementary)