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

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

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.

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.

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.

SKILLS

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