Longqi (Rocky) Cai

https://misaka-10032.github.io

412-652-8030 longqicai@gmail.com

100 N Whisman Rd, Apt 2121, Mountain View, CA

EXPERIENCE

Google, Inc Mountain View, CA

Software Engineer

Mar. 2017 - Present

- Implemented the pipeline for on-device face grouping in Google Photos.
- Built the image-search index for labeled products in Google Lens.

Carnegie Mellon University

Pittsburgh, PA

Teaching Assistant

Sep. - Dec. 2016

- Assisted Prof. William W. Cohen in the class Machine Learning with Large Datasets.
- Improved the assignment *Approximate PageRank* by visualization on a cleaner dataset.
- Designed the assignment *Phrase Finding on Spark*, helping students visualize the phrase cloud.

Glow, Inc Shanghai, China

Software Engineer Intern

Jul. 2014 - Jul. 2015

- Glow is a startup that cares about women's health, founded by Max Levchin.
- Customized the UI widgets and the animations for better user experience.
- Set up the internal Maven center, and extracted the common libraries.
- Implemented the OAuth2 flow for the Google Now Integration.

EDUCATION

Carnegie Mellon University

Pittsburgh, PA

M.Sc. in Information Technology Strategy (3.87/4.00)

Sep. 2015 - Dec. 2016

Fudan University

Shanghai, China

B.Sc. in Computer Science and Technology (3.64/4.00)

Sep. 2011 - Jul. 2015

Projects

Partical Systems

Carnegie Mellon University

Class project for Compute Graphics

Dec. 2016

- Implemented the abstraction of a particle system in Javascript.
- Built two simulation examples based on this abstraction: fireworks and cloth.

Powerline Detection on Aerial Images

Carnegie Mellon University

Independent Study supervised by Prof. Kayvon Fatahalian

Jun. - Aug. 2016

- Adapted Fully Convolutional Network to the task of line detection.
- Implemented a fast Hough Transform Layer, improving convergence rate by 10 times.
- Built a web visualization tool to diagnose and evaluate results.

Halstm Carnegie Mellon University

Class project for Parallel Computer and Architecture Programming

Apr. - May. 2016

- Implemented Long-Short Term Memory (LSTM) with Halide.
- Exploited multi-thread execution and SIMD.
- Improved the CPU performance by 2x speedup, compared with Caffe.

SKILLS

- Language: C++, Java, Python.
- Tools: Bash, Git, Mercurial, Bazel, Makefile, Markdown, Latex.