KEN LUY

San Francisco, CA
(415) 735-5365
vqluy@berkeley.edu

LinkedIn: linkedin.com/in/kenluy GitHub: github.com/tmnt-raphael Personal Website: kenluy.com

Experience

OpenText, Software Engineer (March 2017 to Present); San Mateo, CA

- Built features for content management systems, which is a core product of OpenText.
- Developed a RESTful service that handled CRUD operations for saving locales.
- Implemented the user interface of an image recommendation ML service.
- Wrote Java code that invokes a RESTful service that generates iOS and Android apps.
- Utilized technologies such as: Angular 1, Java, CentOS Linux.

E*TRADE Financial, Software Engineer (Jul 2012 to Aug 2014); Menlo Park, CA

- Created services that provided interactive visualizations of user data for fraud analysts.
- Built pipeline that filtered, extracted, and transformed user data from a Hadoop cluster.
- Implemented custom sorting and filtering features on scatter plot graphs with D3.js
- Utilized technologies such as: Perl CGI, JavaScript, D3.js

Selected Projects

Website to Calculate Trading Prices: kenluy.com/trading

- Developed a website that allows users in my trading group to calculate prices to exit trades.
- Has ongoing active users (10 per month).
- Utilized technologies such as: JavaScript, Materialize CSS, Google Cloud.

Master's Degree Project: Distributed Key-Value Database

- Implemented the specifications of a key-value database that is sharded and replicated across many servers.
- The db has no single point of failure because it uses Paxos to replicate data across the nodes of a shard.
- Not all nodes are responsible for all data; groups of nodes save certain shards of the data.
- Shard reorganization code allow nodes to join the db and cause the number of shards to increase.

Languages and Technologies

- Languages: Java, Python, JavaScript, C, Go
- Technologies: HTML, CSS, Git/GitHub

Education

New York University

3.14 GPA, Master of Science in Computer Science, May 2016

Course:

Distributed Systems

- Wrote part of the code of scalable key-value databases using the golang programming language

University of California, Berkeley

3.01 GPA, Bachelor of Science in Bioengineering, May 2012

Courses:

Operating Systems & Systems Programming

- Added Java code to a distributed NoSQL database that used the 2 Phase Commit protocol

Great Ideas in Computer Architecture

- Used C, OpenMP, and Intel AVX to maximize matrix multiplication speed
- Implemented a MIPS CPU

Awards

- 3rd Place, Intuit's Hackathon at UC Berkeley (2016)
- Mathematics Achievement Award, Bank of America (2007)