KEN LUY

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Education

New York University

3.14 GPA M.S. Computer Science, May 2016
Course:
Distributed Systems
- Implemented scalable NoSQL key-value databases using the golang programming language

University of California, Berkeley

3.01 GPA B.S. Bioengineering, May 2012
Courses:
Operating Systems
- 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.

Experience

OpenText, Software Engineer (March 2017 to Present); Foster City, CA

- Worked on content management systems (websites that are used to make websites).
- I am designing a microservice and implementing it with Java. I am also designing how the microservice will interact with other services. The microservice will be a Java servlet that will run on JBoss. I will do the Java coding as well as the AngularJS coding.

HyTrust, Software Engineering Intern (Jun 2016 to Sep 2016); Mountain View, CA

- Used Python to implement programs that send summary emails to customers.
- Was part of a mission critical team that serve many government agencies and financial service companies: https://www.hytrust.com/solutions/data-sovereignty/

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

- Worked on the Fraud Prevention team and made programs that allow fraud analysts to visualize data.
- Used Python to parse log files, generate JSON objects, and generate interactive D3.js visualizations.
- Created a web app (w/ Perl CGI as the backend) that allows fraud analysts to generate D3.js visualizations.
- The web app accesses log files from a Hadoop cluster and parses the log files.
- Implemented custom sorting and filtering features on scatter plot graphs with D3.js.

Selected Projects

Distributed NoSQL Key-Value Database:
- Created a Key-Value database that is sharded and replicated.
- The db has no single point of failure because it uses Paxos to replicate data across nodes.
- Not all nodes are responsible for all data; groups of nodes save certain shards of the data.
- Shard reorganization code allows nodes to join the db's cluster of nodes and scale horizontally.

Address Book:
- Created a Java API that could be used to create address books: tmnt-raphael.github.io/AddressBook

Languages and Technologies

Proficient: Java, Python
Exposure: JavaScript, HTML/CSS, C, Go, Git/GitHub

Awards

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