

Experience

[OpenText Coporation](#), Software Engineer (March 2017 to Present); San Mateo, CA

- Was a software engineer for content management systems (CMS).
- Developed a REST API using Java. Handled CRUD operations for saving locales for a CMS.
- Mentored QA engineers on how to use Swagger UI to test the permissions of my REST endpoints.
- Implemented the component in a UI that fetched content suggestions from an AI service.
- Technologies primarily used: Angular 1, Java, CentOS Linux.

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

- Used Python to implement programs that send summary emails to customers.
- The Python programs used the Jinja2 HTML templating engine.

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

- Made programs that allow fraud analysts to visualize time series data.
- 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

[Website to Calculate Trading Prices: \[kenluy.com/trading\]\(https://kenluy.com/trading\)](#)

- Used JavaScript to develop a website that allows users in my trading group to calculate prices to exit trades.
- Deployed the website on Google Cloud. The website has about 10 users per month.

[School Project for Master's Degree: Distributed NoSQL Key-Value Database](#)

- Given the interface, I implemented 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 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

Proficient: Java

Exposure: Python, JavaScript, HTML/CSS, C, Go, 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 NoSQL 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)