

Justin Chiu

SOFTWARE ENGINEER · COMPUTER SCIENCE MAJOR · STONY BROOK UNIVERSITY

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Technical Skills

Programming NodeJS · Python · Java · C

Web Express · Flask · VueJS · NuxtJS · Angular · HTML · CSS · JavaScript · Bootstrap

Other AWS/GCP/OpenStack · Git · MongoDB · Cassandra · MySQL · Elasticsearch · Logstash · Kibana · NGINX

Work Experience

FactSet Research Systems Inc.

New York, NY

SOFTWARE ENGINEERING INTERN - RESEARCH ENGINEERING TEAM

May, 2018 - PRESENT

- Built a full-stack web application dashboard using NuxtJS/VueJS and a RESTful NodeJS back-end hosted on an inhouse Heroku.
- Primarily focused on data visualization of Redis and Memcached servers to display cache performance and development tools.
- Saved hundreds of debugging hours and promoted caching service that improves speed by 200% to clients through Product Developers.
- Worked alongside Senior Software Engineers providing constructive feedback on design changes and features.
- Responsibilities consisted of UI/UX design, technology architecture design, JIRA Agile development, and collaborating with other teams.

KEMP Technologies

Melville, NY

R&D INTERN - RESEARCH TEAM

Apr. 2017 - Aug. 2017

- Worked with a team of senior software developers, system integrators, and quality assurance engineers on the development of a Slack Bot, which will serve as the centerpiece for customer engagement.
- Moved a hard-coded communication platform to an NLP platform that calculates the score for user actions and outputs the top scoring intent.
- Centralized logging, (using Elasticsearch, Logstash, Kibana), for maintaining load balancers and other server instances.
- Visualized database queries using ChartJS as an additional feature to the Slack Bot.

Education

Stony Brook University

Stony Brook, NY

B.S. IN COMPUTER SCIENCE

Aug. 2015 - Exp. Dec. 2018

COURSEWORK CLOUD COMPUTING · ANALYSIS OF ALGORITHMS · SYSTEM FUNDAMENTALS II · PRINCIPLES OF DATABASE SYSTEMS · NATURAL LANGUAGE PROCESSING

Projects

Twitter Clone

NODEJS · MONGODB · CASSANDRA · NGINX · POSTFIX · ANGULAR · TYPESCRIPT

May, 2018

- Full-stack web application that utilizes a wide range of technologies to meet quality of service requirements (tail latencies < 300ms).
- Configured NGINX as a load balancer to handle about 1000 simulated requests per second routed to a NodeJS RESTful API.
- Total compute allowance: 20 vCPUs, 20 GB of RAM, hosted on a cloud service of my choice, AWS/GCP/OpenStack.
- Supported functionality: login/logout, email verification, adding text/media tweets, search, and following. Majority of the information is stored on a sharded MongoDB cluster, while Cassandra stores media. Used monitoring tools such as Kibana, PM2, NGINX Plus, and top.

REST-based Tic-tac-toe

PYTHON · MONGODB · NGINX · HTML · CSS · JAVASCRIPT

Mar. 2018

- Full-stack web application using Flask as a RESTful API and AJAX calls to handle client-side requests.
- Hosted web servers on Google Cloud virtual machines, configured NGINX as a load balancer, and optimized MongoDB queries by indexing collections to meet performance requirements of 200 requests per second.
- Supported features, such as, login authentication, email verification, user sessions, and match histories.

Food Beyond

PYTHON · MONGODB · HTML · CSS · JAVASCRIPT

Feb. 2017

- Organizes the user's ingredients and lists recipes corresponding to the items in the user's inventory.
- Using the Raspberry Pi, SimpleCV, and UPC-database, the user can scan barcodes and update the their ingredients.
- Designed and implemented the front-end using HTML, CSS, Bootstrap, and jQuery.
- Utilized the Food2Fork API using Python Flask as a REST API.

Feature-based Extraction Summarizer

PYTHON

May, 2017

- Implemented a feature-based extractive summarizer using Dragomir R. Radev's LexRank text summarization algorithm.
- Evaluated inverse document frequency values and calculated accuracy on our extractor based on the CNN/Daily Mail dataset.
- Learned how to make a cosine similarity matrix stochastic, aperiodic, and irreducible to interpret it as a Markov Chain.