JEFFREY ZHU

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Bachelor of Science: Computer Science - Expected Graduation: Spring 2021
University of California, Los Angeles | GPA: 3.61/4.00
https://jeffrey7221.github.io./ | https://github.com/Jeffrey7221/

SKILLS

- Highly skilled in: Python, C++ | Proficient in: Java, HTML, CSS, Javascript, SQL
- Developer Tools: AWS, Git, Docker, SVN, TensorFlow, Keras
- Coursework: Database Systems, Computer Networking, Machine Learning, Web Applications

Work Experience

Qualtrics | *Software Engineering Intern* June 2020 - Sept. 2020

- Developed a ticket exports feature that allows clients to export ticket data as CSV or TSV files
- Implemented character delimiters and filters to export tickets based on various properties, such as ticket owner, status, creation date, and updated date
- Used React and AWS DynamoDB

Everbridge | *Software Engineering Intern* June 2019 - Sept. 2019

- Developed new features and APIs along the company's data pipeline using Python, Java, and Scala, managing connections between a MongoDB, an AWS S3 datalake, and various AWS Glue ETL jobs
- Developed automated smoke tests and functional unit tests to validate the company's data pipeline
- Identified and corrected functional bugs, and ensured optimal performance scaling for gigabytes of data

TechExcel | *Software Developer Intern* June 2018 - Sept. 2018

- Developed a web application designed for companies to control and monitor projects and workflows; it was built dynamically scalable in order to query, load, and display large amounts of data
- Finished product was marketed and shipped to large companies such as Sony Entertainment
- Front-end web app developed using Vue.js | Back-end DevTrack RESTful API written in C# and SQL

Scalable Analytics Institute | *Research Assistant* October 2019 - Present

- Working with Professor Yizhou Sun and a PhD student on a NLP project called TwitterText
- Analyzing a massive data set of twitter text to extract political polarity from the word embeddings, with the goal of being able to detect inherent political biases in speech and depolarizing the text
- Implementing and expanding upon advanced word embedding algorithms such as Word2Vec and GloVe

Projects

C++ Web Server – *CS 130* https://github.com/Jeffrey7221/CS_130

- Made a scalable, multithreaded web server in C++ that supports echoing, serves static files, and renders Markdown as an HTML web page
- Uses health handlers and status handlers to monitor server health and record traffic
- Implemented MongoDB as our database and shipped in Docker containers to GCP for continuous build

ImageClassification - *Machine Learning* https://github.com/Jeffrey7221/ImageClassification

- Utilizes TensorFlow to experiment with training a neural network to be able to classify images
- Trains the model through 10 epochs which each uses 5 different batches to optimize loss reduction, achieving a final accuracy of over 50% on a final test batch

Pic It! - *LA Hacks 2018* https://github.com/Jeffrey7221/LAHacks2018

- Made an Android app that helps a group find a place to eat, connecting users together in real-time and sending them recommendations based on preferences and location
- Used Java for the Android App and Google Firebase on the backend