

Alex Chen

☎ (909) 325-5296 | ✉ achen2289@gmail.com | 🏠 achen2289.github.io | 🌐 achen2289 | in alexlchen

Education

University of California, Los Angeles

BACHELOR OF SCIENCE, COMPUTER SCIENCE

Expected December 2022

GPA: 3.97

Coursework: Data Structures, Algorithms, Database Systems, Operating Systems, Computer Organization

Honors: Dean's Honor (2019 - 2021), Upsilon Pi Epsilon Honor Society, Tau Beta Pi Honor Society

Experience

Amazon

Boston, MA

SOFTWARE ENGINEER INTERN, AWS ELASTIC BLOCK STORE - TYPESCRIPT, PYTHON

Jun. 2021 - Present

- Designed end-to-end system to support multi-versioning of CloudFormation templates and aid in EBS bootstrapping
- Created database to track the changing history of relationships between CloudFormation templates, increasing the number of Outpost infrastructure configurations for thousands of customers from 3 to an infinite amount
- Designed data access patterns based on updates made to a central template store that maintain consistency in database, significantly increase ease of template modification by team, and enable automatic rollbacks
- Constructed pipeline for continuous deployment and programmatic provisioning of infrastructure, increasing maintainability

Electron Losses & Field Investigation

Los Angeles, CA

SOFTWARE DEVELOPER - PYTHON

Oct. 2020 - Present

- Developed framework for compiling geomagnetic activity data and downlinks from two CubeSats for a NASA funded space mission, eliminating need to manually analyze hundreds of records per week
- Releasing requested features in the Downlink Completeness Tool to provide various benefits ranging from improving UI to increasing context of science data

Skoruz Technologies

Fullerton, CA

DATA ENGINEER INTERN - PYTHON

Jun. 2019 - Sep. 2020

- Constructed Change Data Capture (CDC) pipeline that performs ETL jobs into Hive for company's Business Analytics Platform
- Developed program to customize NiFi templates based on client configurations and deploy as data feeds to instantaneously ingest changes and establish availability
- Re-formatted records as Delta tables, providing teams with thorough data versioning and powerful metadata processing through Spark

Projects

he-reddit-ary

- Used Spark to compute the most influential words used in Reddit comments for any subreddit during a time period
- Aggregated different sets of attributes to determine various statistics, used to calculate an overall TF-IDF score for each token

DELIVERYMiner

- Extracted customer orders made through different food delivery companies, used to form a centralized interface of orders
- Developed REST API endpoints to dynamically parse emails and integrated pub/sub messaging to optimize resources

Skills

Languages Python, SQL, C/C++, Java, HTML/CSS

Tools AWS, Git, Spark, Docker, Flask, Apache Software Projects

Technologies Databases, SQL/NoSQL, Linux, ETL, MapReduce