

BONNIE CHIN

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WORK EXPERIENCE

ETL Software Development Engineer, Zoom Video Communications, Inc. | San Francisco, CA July 2022 – February 2023

- Contributed to cross-functional collaboration in designing and implementing data pipelines using Scala and Spark to deliver insightful analysis and reporting of business-critical information
- Conducted thorough data validation using SQL in Hue to verify the accuracy and completeness of data processed through the pipelines
- Successfully migrated six on-premise ETL jobs to Amazon MWAA and deployed them as part of the team wide migration efforts
- Served in an on-call rotation of six engineers to ensure the stability and reliability of all operational data pipelines

NLP Independent Research, Computer Science Department | Colgate University January 2022 – April 2022

- Developed an algorithm for the Python text-models library under the guidance of Professor Mario Graff Guerrero.
- The algorithm can detect and describe the events of any day(s) and region of interest using English Twitter data, displaying the results in a word cloud.

Data Lake Engineering Summer Analyst, Goldman Sachs | Dallas, TX June 2021 – August 2021

- Improved implementation of Elasticsearch reindex API that copies from HBASE to Elastic cluster during failover procedure to support indexing of records with user specified time window
- Increased efficiency of indexing by utilizing thread pools to parallelize the process
- Created a service to integrate Elasticsearch with the Data Lake replication process as part of Backup Services
- Wrote unit tests with Mockito to verify interactions between HBase tables and Elasticsearch cluster

Teaching Assistant, Computer Science Department | Colgate University September 2020 – May 2022

- Assisted 20 to 30 students by debugging code and answering questions regarding Python and Object-Oriented Programming concepts using Java during weekly office hours
- Clarified students' understandings about discrete structures and its application in computer science by answering questions during weekly lab sessions
- Prepared for weekly lab sessions by meeting with the lab instructor and four other teaching assistants

PROJECTS

Task Parser Spring 2021

COSC 480A | Colgate University

- Worked with three students to integrate Natural Language Processing into a To-Do app by building custom spaCy pipelines and following a rule-based approach to parse user input for relevant data
- Wrote RegEx patterns to identify acronyms and abbreviations for task categorization

Personal Finances Dashboard

Independent Project | Milford, CT

February 2020

- Learned Django Framework in a week to develop a web application that serves to track financial transactions through user interaction
- Utilized SQLite to manage, retrieve, and display current and new users and their relevant information

TECHNICAL SKILLS

Programming/Scripting Languages: Python and Java (Experienced); SQL, Scala, Spark, HTML5, CSS3, JavaScript (Basic Experience)
Frameworks and Tools: Git, Django (Experienced)

EDUCATION

Colgate University | Hamilton, NY

Graduated May 2022

Bachelor of Arts; Economics and Computer Science Double Major

- Magna Cum Laude
- Computer Science Major GPA: 3.80/4.00