

Jay Cui

(857) 207-7125 • jaycui1119@hotmail.com • linkedin.com/in/shilongjaycui/ • github.com/shilongjaycui

EDUCATION

Bachelor of Science: Mathematics

Brigham Young University (BYU)

Apr 2023

Provo, UT

- Minor: Computer Science
- GPA 3.77 | SAT: 1530/1600, 99th percentile | Heritage Scholarship: merit-based scholarship

PERSONAL PROJECTS

Volume Hand Control

Jan 2022

- Built an OpenCV (Python) application that detects human hands and hand joints
- Manipulated MacBook Pro volume without physically touching the laptop

EXPERIENCE

Software Engineering Intern

May 2022 – Aug 2022

Neighbor Storage, Inc.

Lehi, UT

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NLP Research Assistant

Sep 2021 – Dec 2021

BYU DRAGN Labs

Provo, UT

- Improved the BERT language model performance by 3% by designing a data-filtering algorithm in Python
- Built an LSTM network in TensorFlow that detects textual contradictions with a test-set accuracy of 80%
- Designing a Transformer network to outperform the LSTM network

Software Engineering Intern

May 2021 - Jul 2021

Pluralsight, Inc.

Draper, UT

- Retrieved 10GB of user data from 10+ tables for the analytics website by writing a SQL query
- Ensured the SQL query's performance under 10+ edge cases by building an integration test in C#
- Accelerated user data load time by 67% (6s to 2s) by redesigning the table concatenation procedure
- Integrated 50GB of content data from a newly acquired startup (Next Tech) into Pluralsight's insights & analytics platform by rebuilding 5 SQL queries and their integration tests
- Enabled 17,000+ business customers in 180+ countries to monitor their teams' content engagement and skill improvement

Data Science Intern

Feb 2020 - Dec 2020

OrderBoard, Inc.

Orem, UT

- Generated 20% of the market intelligence report for 5+ client companies by designing an algorithm in Python
- Built a predictive model in Python that maps client companies' employees to their archived job postings
- Invented a dynamic dictionary in Python that normalizes and stores job requisition keywords
- Cleaned over 1GB of market intelligence data with Pandas

LEADERSHIP EXPERIENCE

Vice President, Recruiting

Sep 2021 - Present

Society for Industrial and Applied Mathematics (SIAM), BYU Chapter

Provo, UT

- Organized, advertised, and hosted 10+ recruiting events for 600+ undergraduate STEM students
- Built relationships with 10+ alumni and recruiters at 5+ Big Tech and unicorn companies
- Executed campus recruiting strategies that led to interviews for 10+ students

OTHER SKILLS & PERSONAL INTERESTS

- Semi-professional accordion player, won 15+ gold medals at 5+ national competitions
- Culinary skills: Szechuan cuisine, Japanese cuisine, Korean cuisine
- Hip-hop dancer | Reggaetón fanatic