

Bryan Cha

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EDUCATION

University Of California, San Diego (UCSD)

• Bachelor of Science in Business Economics, Minor in Data Science, GPA: 3.58/4.00

La Jolla, CA, USA

June 2025

National University of Singapore (NUS)

• Exchange Student Program

Singapore

August 2024 – December 2024

SKILLS AND INTERESTS

Analysis & Visualization: Power BI, Tableau, Microsoft Excel, PowerPoint, Google Analytics, A/B Test, Pandas

Programming Languages: SQL, Python, R, Java, JavaScript, C++, React, HTML, NumPy, STATA

Database Management Systems: PostgreSQL, Microsoft SQL Server, MySQL, MongoDB, AWS, Microsoft Azure, Snowflake

Languages: English, Korean

Interests: Travel, Hip-Hop Dance, Beach Volleyball

WORK EXPERIENCE

UCSD Undergraduate-Graduate Economic Research Lab

Research Assistant

La Jolla, CA

March 2025 – June 2025

- Standardized a panel dataset of 32,000 Indonesian villages from PODES data and resolved administrative code inconsistencies caused by village boundary splits via custom crosswalk logic.
- Aggregated key development indicators across 80,000 village-year observations using population-weighted averages and transformations in Python and STATA.
- Boosted valid record match rate from 51% to 98% by resolving village code mismatches through automated Python scripts.
- Delivered a clean panel that streamlined econometric analysis and supported a rural development dissertation project.

Gryphon Online Safety, Inc

Data Analyst Intern

San Diego, CA

July 2023 – September 2023

- Designed and deployed a device identification system across 5 Wi-Fi router models to overcome IP address randomization.
- Built device fingerprinting logic from 1,000 traffic captures using Wireshark and Python to isolate protocol signatures via feature extraction.
- Cleaned and analyzed traffic logs using PostgreSQL and Excel PivotTables to accelerate trend insights by 30%.
- Improved model accuracy to 89% through iterative tuning, boosting real-world classification performance by 25%.

San Diego Supercomputer Center

Project Manager Intern

La Jolla, CA

June 2022 – September 2022

- Led an 8-member team through a 3-month Agile Sprint to develop an interactive financial trading simulation platform.
- Built BI dashboards in Tableau to track sprint KPIs and make decisions on resource allocation and feature prioritization.
- Tracked sprint velocity and managed delivery risks using Jira to ensure timely and aligned feature releases.
- Integrated 5 financial APIs and built SQL-based ETL pipelines to ensure data integrity and real-time data ingestion.

LEADERSHIP AND PROJECTS

Like Lion Project Team

Project Lead Developer

La Jolla, CA

March 2024 – June 2025

- Developed a full-stack course calendar app with Django Rest Framework, PostgreSQL, and Expo to automatically sync student schedules and Canvas calendars.
- Boosted app speed by 62% through server-side filtering and API optimization.
- Deployed the backend to Render with Gunicorn and PostgreSQL to enable real time updates without requiring app reinstalls.

Korean American Student Association

President

La Jolla, CA

September 2021 – June 2025

- Led a team of 38 to plan and execute 28 annual cultural events attended by 520 participants.
- Established 19 strategic partnerships with peer organizations from other universities to amplify the organization's presence.
- Launched mentorship programs and fostered a 30% increase in member retention and strengthening community inclusivity.