Brian Yen

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Experience

Software Engineering Intern – Couchbase, Inc. June 2024 – Aug 2024

- Fixed 10+ JIRA tickets to implement parity of temporal and fundamental aggregate functions for database querying language optimized for data analytics
- Identified and debugged edge case behavior of aggregate version of COUNT
- Agile framework with daily scrum meetings with team for coordination and productivity
- Ensured code quality with tools like Gerrit for code reviews and continuous integration and regression tests

Education

University of California: San Diego, Majoring in Mathematics – Computer Science Expected 2023 – 2027

- Junior, GPA: 4.0/4.0
- **Coursework:** Software Engineering, Operating Systems Principples, Optimization Methods for Data Science, Advanced Data Structures, Design and Analysis of Algorithms, Computer Organizations and Systems Programming, Machine Learning: Learning Algorithms, Introduction to Artificial Intelligence: Probabilistic Reasoning, Theory of Computability, Computer Organizations and Systems Programming, Software Tools and Techniques Laboratory, Linear Algebra, Discrete Math and Graph Theory, Differential Equations

Menlo-Atherton High School, 4.00 unweighted GPA 2019 – 2023

Projects and Competitions

Battlecode 2024-2025

- (2025 - Finalist, 13th/127 U.S. college teams) Designed and implemented encoding scheme to communicate game information between agents, managed logic for agents to initiate retreat in turf-war strategy tournament
- (2024 - 19th/115 U.S. college teams) Wrote responsive defense and communication broadcasting algorithm for capture-the-flag strategy tournament
- Tools Used: Java

CALICO Informatics Competition 2024-2025

- U.C. Berkeley competitive programming competition, collaborated in a team of 3
- Fall 2025 - Silver Medal - top 8%, 85th/1092 entrants internationally
- Spring 2024 - Silver Medal - top 10%, 81st/820 entrants internationally
- Tools Used: Python

IEEE National Micromouse Competition 2024-2025

- Created motor controls and sensor integration for a robot to algorithmically solve and traverse a random maze
- Tools Used: Arduino, C++

TubeSlides tubeslides.net

- Youtube video-to-presentation website that converts YouTube video lectures to HTML slides with transcripts
- Tools Used: HTML, Python, Javascript, CSS, AWS

Karuta Practice Simulator

- Created a web app to practice Karuta, a card sport, on custom playlists and custom card visual creations
- Tools Used: HTML, Javascript, Python, CSS

Technologies

Languages: Java, Python, Javascript, C, HTML5, CSS, bash, git, MATLAB, SQL++/N1QL

U.S. Citizen