

# Brandon Lee

## Data Scientist

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[LinkedIn](#) | [Portfolio](#)

### EDUCATION & CERTIFICATIONS

**San Jose State University, San Jose, United States - B.S., Data Science**

Aug 2023 - Present

Relevant Courses: Data Visualization, Data Structures, AI Foundations, Database Management, Linear Algebra

### TECHNICAL SKILLS

**Programming Languages:** Python, SQL, R, Java, C++

Data Analysis Tools: Pandas, NumPy, Data Sanitization, Data Mining, PyTorch, Data Modeling

Operating Systems: Linux, Windows, MacOS, AWS, Jupyter Notebook

Other: Linear Algebra, Statistics, Machine Learning, Linear Regression

### WORK EXPERIENCE

**AI & Robotics Data Collection Engineer Intern, RoboForce, Milpitas, United States**

Sept 2025 - Present

- Developed and enforced data quality standards, building QA tools that boosted labeling review efficiency by 30% and ensured reliable, analysis-ready datasets.
- Collected, validated, and optimized multimodal sensor data (camera, LiDAR, etc.) in live scenarios, improving dataset accuracy by 15% and supporting more robust model training.

**Data Scientist Intern, UBX World, Toronto, Canada**

Aug 2024 - Oct 2024

- Processed and analyzed multi-gigabyte sports tournament datasets using Python, contributing to the development of a more accurate, data-driven player rating system.
- Developed a minimum spanning tree (MST)-based adjacency matrix to visualize and quantify player overlap across tournaments, enabling network analysis of player participation patterns.

**Front Desk Analyst, Synergy Badminton Academy, Fremont, United States**

Aug 2022 - Present

- Leveraged Google Sheets, SQL, and Python to analyze purchase trends and transaction data, driving inventory optimization strategies that improved operational efficiency by 20%.
- Developed automated scripts in Python and SQL to generate structured tags and item descriptions for Shopify products, enhancing metadata quality and boosting profit by 30% through improved product discoverability.

### PROJECTS

**Badminton Stringing Analysis – Personal Project**

- Utilized Python and Jupyter Notebook to process and visualize performance data, transforming raw inputs into actionable insights and uncovering trends and anomalies.
- Applied data-driven analysis of equipment preferences and metrics to support optimized decision-making, combining practical knowledge with analytical expertise.

**League Meta Miner: Patch-wise Champion Tiering with K-Means – SJSU**

- Built an end-to-end analytics pipeline to ingest Riot Games Match-V5 data across 20 patches, computing per-champion win/pick/ban rates with robust rate-limit handling and backoff; produced 2.5k+ champion-patch rows and automated CSV exports for reproducible analysis.
- Designed patch-over-patch insights (bump charts, heatmaps,  $\Delta$ -WR/PR movers) and stability metrics (tier transition rates), translating balance changes into clear, data-driven narratives for stakeholders.

### CERTIFICATIONS

*Google Data Analytics Specialization* - Coursera

July 2025

### ACTIVITIES

**Match Control Coordinator, Synergy Badminton Academy, Fremont, CA**

- Managed operations for the 2024 YONEX Synergy NorCal Open, overseeing match execution, court assignments, and live score reporting; maintained draws on TournamentSoftware for accurate scheduling and bracket visibility.