

Brandon Blaze Leong

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TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, Dart, C++, R, Ruby, Go, C#

Frameworks: React, Node.js, Flutter, Streamlit, FastAPI, Flask, Tailwind CSS, [Next.js](#), Numpy, [Vue.js](#), Pytorch

Tools & Platforms: Git, GitHub, PostgreSQL, Supabase, AWS EC2, Vercel, Docker, VSCode, Linux, Excel

EDUCATION

Bachelor of Science in Computational Finance & Data Science, University of Washington, Seattle Expected June 2027

- Cumulative GPA 3.8/4.0, Dean's List
- **Relevant Coursework:** Machine Learning in Finance, Data Structures and Algorithms, Database Systems, Web Programming, Scientific Computing, Mathematical Methods for Quantitative Finance, Financial Markets

TECHNICAL PROJECTS & RESEARCH

Cross-Factor Momentum Research Replication | Python (Pandas, NumPy, Matplotlib), Statsmodels January 2026

- Replicated an empirical asset pricing study to analyze the predictive power of momentum signals across equities
- Developed a modular backtesting framework to process large-scale time-series data, implementing rolling-window signal construction and multi-factor portfolio rebalancing.
- Evaluated strategy performance through risk-adjusted metrics, including the Sharpe ratio and maximum drawdown, while validating alpha significance via Fama-MacBeth regressions.

JPMorgan Chase SWE Virtual Experience Program (via Forage) | Java Springboot December 2025

- Completed a virtual job simulation focused on back-end engineering for high-volume financial transactions.
- Integrated a Spring application with an external REST API and managed data ingestion with an H2 database.
- Set up a local development environment using Java 17 and Maven to build and test core financial services.

NVIDIA Stock Forecasting via LSTM | Python, TensorFlow, FinBERT, REST APIs Jun 2025 -- Jul 2025

- Built a predictive LSTM model enhanced by NLP-based sentiment signals extracted using FinBERT from financial news headlines.
- Developed under an Agile-inspired workflow, implementing a CI/CD pipeline to automate integration testing across data pipeline components, ensuring robust ingestion and compliance.
- Integrated RESTful APIs to automate the ingestion of price data and macroeconomic indicators in a data pipeline.
- Achieved 62% directional accuracy and reduced MAE through hyperparameter tuning and feature engineering.

Redis-like In-Memory Database | C++, Makefile, Multithreading July 2025

- Implemented a lightweight, Redis-compatible in-memory database supporting key-value, list, and hash data structures with expiration, persistence, and RESP protocol support.
- Designed a thread-safe architecture using mutex locks and a one-thread-per-client model, enabling multi-client support with minimal latency.

ADDITIONAL EXPERIENCE

Coding Instructor, Coding With Kids September 2025 - February 2026

- Mentored groups of 10+ students in fundamental programming, tailoring delivery methods to diverse learning speeds to ensure consistent curriculum mastery.
- Translated abstract technical logic into digestible insights for non-technical audiences, facilitating the bridge between complex code and user understanding.
- Partnered with a team of fellow instructors to synchronize classroom logistics and share best practices, ensuring a standardized and high-quality learning experience across multiple sessions.

Retail Associate, Ace Hardware Aug 2022 - Jun 2023

- Led shift operations and improved inventory accuracy by streamlining restocking workflows, demonstrating team and operations leadership
- Resolved 100+ weekly inquiries, enhancing customer satisfaction and retention
- Balanced 20+ weekly work hours with academic commitments