

# Brandon Blaze Leong

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## EDUCATION

### University of Washington

Seattle, WA

*BS in Computational Finance: Data Science & Computer Science*

*Expected Graduation, June 2026*

**Cumulative GPA:** 3.9/4.0, Deans List

**Related Coursework:** Machine Learning in Finance, Data Structures and Algorithms, Database Systems, Interaction Programming, System and Software Tools, Web Programming, Mathematical Methods for Quantitative Finance, Scientific Computing

## EXPERIENCE

### Ace Hardware

Aug 2022 – Jun 2023

*Retail Associate*

*San Jose, CA*

- **Team Leadership** Led shifts and improved inventory accuracy through process optimization
- **Customer Service** Assisted 100+ customers weekly with product and inventory inquiries
- **Time Management** Balanced part-time work with school, demonstrating reliability

## PROJECTS

### Options Pricing Visualizer | *Python, Streamlit, Matplotlib*

June 2025 – June 2025

- **Financial Modeling** Implemented Black-Scholes and Binomial Tree models to calculate and visualize European and American option prices
- **Interactive Dashboard** Built a Streamlit application for real-time scenario analysis, plotting option prices and Greeks across varying parameters
- **Performance Enhancement** Optimized computation pipelines to enable instant updates during parameter sweeps

### Eatvolution (DubHacks24) | *React, JavaScript, TypeScript, Perplexity AI*

Oct 2024

- **Hackathon Project** Built a full-stack nutrition and fitness tracker leveraging AI-powered meal logging and personalized goal recommendations
- **Team Leadership** Led project delivery, coordinating design, implementation, and real-time debugging under tight deadlines

### ML Chess | *HTML, CSS, JavaScript, Python*

Sept 2023 – June 2024

- **AI Opponent** Developed a PyTorch model to evaluate chess board states and generate optimal moves
- **Frontend Development** Engineered an interactive UI enabling dynamic gameplay with responsive design
- **Backend API** Deployed FastAPI endpoints to handle game state persistence and move prediction logic
- **Performance Optimization** Increased move evaluation speed by 20% through algorithmic refinements

### iMoney | *Flutter, Dart*

Mar 2024 – June 2024

- **Portfolio Tracker** Developed a Flutter app for managing stock portfolios with real-time data from Alpha Vantage API
- **Forecasting** Improved prediction accuracy by 15% through moving average and time series models

### E-commerce Platform | *HTML, CSS, JavaScript, SQL*

Mar 2024 – June 2024

- **Full-Stack Development** Designed user authentication, RESTful APIs (Node.js), and SQL database integration for product and order management
- **Recommendation Engine** Implemented personalized product suggestions based on user behavior and purchase history

### Algorithm Visualizer | *React, JavaScript*

Feb 2024

- **Interactive Tool** Built a React app to visualize Dijkstra's algorithm with dynamic graph animations
- **Frontend Development** Created responsive components and configurable controls for exploration

## TECHNICAL SKILLS

**Languages:** Java, Python, SQL, JavaScript, HTML/CSS, Dart, R, C++, GDScript

**Frameworks:** React, Node.js, Flutter

**Developer Tools:** Git, Google Cloud Platform, VS Code, Visual Studio, IntelliJ, Eclipse, Excel, Netlify

**Libraries:** NumPy, Pandas, Matplotlib, PyTorch, Chess.js, Python-chess, Scikit-learn