

# Brandon Leong

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## EDUCATION

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### University of Washington

Seattle, WA

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

*Expected Graduation, June 2027*

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

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

## PROJECTS

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

Sept 2023 – Present

- Developed an interactive chess game where users can play against an AI CPU opponent, improving engagement by creating a dynamic and re-playable game by collaborating with a team
- Utilized HTML, CSS, and JavaScript to create an engaging and user-friendly front-end interface
- Built a custom AI model using PyTorch, which evaluates board states and generates optimal moves based on extensive training data
- Designed and implemented backend services with FastAPI to handle communication of game state and AI decision-making
- Enhanced AI performance by refining move evaluation algorithms, resulting in a 20% reduction in decision time and a more challenging opponent experience

### iMoney | *Flutter, Dart*

Sept 2023 – May 2024

- Designed and developed a financial portfolio application to manage and track stocks as part of a team
- Integrated real-time stock market data using the Alpha Advantage API to ensure optimal information for accurate stock prices and market info
- Developed user-friendly features that allow users to add stocks to their portfolio, customize investment amounts, and adjust risk tolerance via an intuitive and responsive UI
- Implemented an estimated moving average algorithm, improving stock value prediction accuracy by 15% for better risk management and investment insights

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

Sept 2023 – May 2024

- Implemented user authentication, enabling users to create accounts and log in securely
- Designed and managing an SQL database for efficient data storage, retrieval, and manipulation
- Created and implemented a custom API with Node.js Express to handle data from the database
- Implemented a recommendation algorithm to recommend products to users based on their purchase history

### Personal Portfolio Website | *HTML, CSS, JavaScript, Astro, Netlify*

Jan 2023 – Present

- A website that showcases personal projects made in my free time, created with Astro, hosted on Netlify.  
(<https://bleong.netlify.app/>)

## TECHNICAL SKILLS

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**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, Matplotlib, PyTorch, Chess.js, Python-chess

## EXPERIENCE

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### Retail Associate

Aug 2022 – June 2023

*Ace Hardware*

*Saratoga, CA*

- Led a team of 4 employees, providing training and constructive feedback to create a positive work environment
- Optimized inventory processes, reducing online stock inaccuracies by 50% and ensuring product availability
- Developed strong customer relationships through proactive communication and personalized service, resulting in a 15% increase in customer satisfaction and repeat business