

Brandon Leong

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EDUCATION

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

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

Sept 2023 – Present

- Collaborated with a team to develop an interactive chess game where users can play against an AI CPU opponent
- Utilized HTML, CSS, and JavaScript to create an engaging and user-friendly front-end interface
- Develop a model with PyTorch for our custom-made AI to generate optimal moves depending on the given board state
- Designed and implemented backend services with FastAPI to handle communication of game state and AI decision-making
- Optimized the AI's performance and improved game efficiency by refining move evaluation algorithms

iMoney | *Flutter, Dart*

Sept 2023 – May 2024

- Worked as part of a team to design and develop a financial portfolio application to manage and track stocks
- Collaborated on integrating real-time stock market data using the Alpha Advantage API
- Implemented features for users to add stocks to their portfolio, choose investment amounts, and adjust risk tolerance through an intuitive UI
- Contributed to the development of an estimated moving average algorithm to predict future stock values

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

Sept 2023 – May 2024

- Developed an e-commerce website for a web design class final project
- Implemented user authentication, enabling users to create accounts and log in securely
- Collaborated on designing and managing an SQL database for efficient data storage, retrieval, and manipulation
- Contributed to creating and implementing a custom API with Node.js Express to handle data from the database
- Implemented a recommendation algorithm to suggest 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

Languages: Java, Python, SQL, JavaScript, HTML/CSS, Dart, 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

Retail Associate

Aug 2022 – June 2023

Ace Hardware

Saratoga, CA

- Led a small team of employees, providing training and constructive feedback to create a positive work environment
- Optimized inventory processes, reducing online stock inaccuracies and ensuring product availability
- Developed strong customer relationships, improving customer satisfaction and loyalty