Brandon Blaze 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

EXPERIENCE

DubHacks24 Hackathon   Oct 2024
Eatvolution | React, Javascript, Typescript, Perplexity AI   *Seattle, WA*

- Developed a full-stack application for tracking nutrition, fitness, and calorie intake, utilizing Perplexity AI APIs for enhanced user experience and intelligent recommendations
- Collaborated with a team of developers to design personalized goal-setting features, a meal logging system, and real-time progress tracking
- Delivered the project within the 24-hour hackathon timeframe, contributing to coding, leading, and project management tasks

PROJECTS

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

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