

Gabriel Cheng

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EDUCATION

University of Washington <i>B.S. in Computer Science, Minor in Neural Computation and Engineering — GPA: 3.8</i> Coursework: Foundations of Computing, Data Structures and Algorithms, Software Design and Implementation, Hardware Software Interface, Calculus	Seattle, WA September 2025 – June 2029
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EXPERIENCE

Software Team Lead <i>UW Fitness Tech</i> <ul style="list-style-type: none">Leading a team of 5 membersCreating an app (with Flutter) that connects to a "BioBand" that tracks calories and calculates reps and steps based on movementCommunicate with engineering and business teams	Jan 2026 – Present
Front of House Manager <i>Chi Mac</i> <ul style="list-style-type: none">Trained 2 new HiresManaged upwards of 120 orders an hourMaintained stock of 50+ items and communicated with suppliers	Jun 2025 – Oct 2025

PROJECTS

Card Counting Trainer <i>Java, JavaFX, Swift, ML</i> <ul style="list-style-type: none">Interactive blackjack training game to help users practice card counting through real-time gameplay simulationsDesigned an object-oriented game engine modeling decks, shuffling, dealing, and scoring using running and true count mechanicsImplemented an adaptive based training system that analyzes user accuracy and response time to dynamically adjust game difficulty and pacingCurrently translating the application to Swift	Nov 2025 – Present
Custom Running Route Generator <i>JavaScript, React, Google Maps API, OpenAI API</i> <ul style="list-style-type: none">Developing a Chrome extension that generates custom running routes from natural language input (e.g., "2 mile run passing by Green Lake")Integrated OpenAI API to parse user intent and extract parameters like distance, waypoints, and location preferences from English queriesUtilized Google Maps Directions, Places, and Geocoding APIs to convert landmark names to coordinates and calculate optimized routesImplemented custom JavaScript algorithms to generate loop circuits that return to starting location while matching requested distance and waypoints	Jan 2026 – Present
Algorithm Visualizer <i>Python, Pygame, Algorithms</i> <ul style="list-style-type: none">Designed and implemented an interactive algorithm simulation tool to visualize sorting and graph algorithms step-by-stepBuilt real-time animations using Pygame to render arrays, graphs, and grids with adjustable execution speedImplemented user controls for play, pause, reset, and input customization to explore algorithm behavior	Jan 2026

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, Swift, x86-64 Assembly	
Frameworks: React.js, Node.js, Next.js, Express.js, FastAPI, Flutter	
Developer Tools: Git, Linux, LaTeX, VS Code, Visual Studio, AWS, Cursor, ClaudeCode	
Concepts: Machine Learning, Object-Oriented Programming, Web Frameworks, Databases, Full stack, Cloud Computing	