Zhiqiang Li

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Education

Tufts University	**Medford, MA**
B.S. in Computer Science	Expected May 2028

GPA: 3.70

Relevant coursework: Calculus 3, Intro to Computer Science (C++), Linear Algebra, Discrete Mathematics, Data Structures, Web Programming

Experience

JumboCode	**Medford, MA**
Software Developer	Sept 2025 - Present

- **Built** nonprofit web app using **React, TypeScript, and Tailwind CSS**, improving **load speed by 25%**
- **Collaborated** with **10** developers and **2** designers in an agile workflow, cutting feature delivery time by **30%**
- **Refined** code quality through peer reviews and **Git version control**, reducing post-launch bugs by **15%**

HCI Lab At Tufts University	**Medford, MA**
Undergraduate Researcher	March 2025 - Present

- **Managed** software and visual (front-end) components using **Kotlin** through the **Samsung smartwatch sensors,** focusing on mental workload detection
- **Cleaned** and converted raw data from **fNIRS and EEGS** into structured format for analysis
- **Engaged** in pair programming in **Python** and **Samsung APIs**, effectively uploading data to **websockets** into **LSL**

iDea Lab At Tufts University	**Medford, MA**
Software Developer	Feb 2025 - Present

- **Helped** with the OwlHead project, using VR to alter and expand one's vision/field of view by **60%** using Unity
- **Optimized** scales for different FOVs ranging **90° to 135°** using display curves that mimic lens/curvature of glass
- **Established** connection with fish-eye camera in Unity, displaying **VR fov alteration** into real life environment

Mr. Gao's Art Studio	**Malden, MA and Boston, MA**
Coding Instructor	July 2025 - Present

- **Arranged** weekly classes spanning the fundamentals of programming, ensuring the success of student learning
- **Organized** interactive game design models, increasing student's weekly program return rate by nearly **80%**
- **Taught** beginner **Python** to students with no coding experience through hands-on lessons and building projects

Projects

Prototype Tennis App
- **Collaborated** with tennis coach to create an app to assist tracking statistics of **20+ players** on the tennis team
- **Utilizes Google firebase and cloud storage** to store a dynamic list of player data, notes, and videos, enabling performance reviews and increase focus on specific skills for each player
- **Aided** the tennis team into winning the GBL tournament of **8 teams**, making **top 30** in the MIAA state tournament

Text-based RPG
- **Developed** a compelling text-based RPG game using Java, JavaFx, and Java Swing
- **Incorporated object-oriented programming** to stimulate action sequences between player and enemies
- Applied class learnings on data structures like **queues, hashmaps, and dictionaries** to hold different game **environments** like the player and monsters data and the game map

Super Tic Tac Toe
- **Remodeled** the basic tic tac toe into a complex system through data structures using the **O(n) time complexity**
- **Implemented** input from player to create NxN board using **map data structure**, setting N win condition
- **Programmed** the conceptual idea of having the first X or O placed down disappear after placing more than the win condition N, enhancing game mechanics

Leadership

Tufts Robotics Club	**Medford, MA**
Member	Sept 2024 - Feb 2025

- **Led** a group of four members in utilizing **CAD, arduino, and flysky fs-i6 controller** to build battlebots
- **Organized weekly meetings** with group members, successfully scheduling progressive tasks

Skills

Programming languages: JAVA, LUA, HTML, Python, Dart, C, C++, SQL, Kotlin, TypeScript, Javascript, Tailwind CSS
Software/ frameworks: Flutter (Dart), Google Firebase & Cloud Storage, YouTube API, JavaFX, React
Language Skills: English (Proficient), Chinese (Fluent)