

Benson Zheng

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EDUCATION

Northeastern University

Boston, MA

Bachelor of Science in Computer Science | GPA: 3.6

Sept. 2024 – May 2027

Relevant Coursework: Fundamentals of Computer Science I & II, Algorithms & Data, Logic & Computation, Discrete Structures, Object Oriented Design

EXPERIENCE

Software Engineer

May 2025 – Present

Code4Community

Boston, MA

- Integrated WordPress as a headless CMS with React applications through Faust.js, enabling seamless content management and dynamic data fetching
- Delivered comprehensive solutions to weekly development tasks by collaborating in Agile/Scrum sprints, with a focus on code quality, thorough testing, and long-term maintainability

Tech Fellow/Teaching Assistant

Jun. 2025 – Aug. 2025

CodePath

San Francisco, CA

- Led weekly office hours and provided one-on-one help to reinforce learning and strengthen student confidence
- Delivered debugging support, clarified complex concepts, and modeled problem-solving strategies in real time
- Mentored and supported 20+ students in data structures and algorithms, strengthening their problem-solving skills through live instruction and collaborative practice

Head of Operations

Jan. 2025 – Present

Northeastern SEDS

Boston, MA

- Coordinated logistics and travel arrangements for multiple engineering competition teams, including NASA's Rover Challenge, SUITS, and Lunabotics competitions
- Provided agile operational support across all business team functions, rapidly adapting to emerging needs and ensuring seamless execution of critical tasks and deadlines

Software Engineer

Sept. 2024 – Present

Northeastern University Mars Rover Team

Boston, MA

- Debug and resolve API integration issues between Notion and Google Calendar, enhancing scheduling efficiency
- Design and implement a macro pad switch feature to toggle between inverse kinematics frames for the rover's base and gripper, enhancing control precision

Researcher

Jun. 2023 - July 2023

Carnegie Mellon University

Pittsburgh, PA

- Conducted research on machine learning techniques and received hands-on experience with TensorFlow, Convolutional Neural Network, etc.
- Participated in presentations to showcase the implementation of image classification for Architectural styles

PROJECTS

ModelMux | *Electron, TypeScript, Ollama, Chroma DB, SQLite*

July 2025

- Developed a cross-platform Electron desktop app in TypeScript that enables switching between 100+ local LLMs (via Ollama) in a unified chat interface
- Integrated MCP tools to fetch website data, store embeddings in Chroma DB, and power context-aware responses through local model inference
- Implemented secure IPC communication via preload scripts and ContextBridge to manage chat state and model selection between renderer and main processes

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, SQL, Lua, HTML/CSS, Racket/Scheme

Frameworks/Technologies: React, Supabase, NextJS, Electron, JUnit, SQLite, AWS (Lambda, S3), Drizzle, Prisma

Developer Tools: Git, Docker, Linux, Vim/Neovim, Docker, VS Code, IntelliJ, Cursor, Claude Code

Databases: MySQL, SQLite, PostgreSQL