

Ivan Zheng

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EDUCATION

Worcester Polytechnic Institute, Worcester, MA

Bachelor of Science in **Computer Science & Data Science**

Expected May 2026

GPA: 3.94/4.00

Honors & Awards: Dean’s List 2022-2025, Charles O. Thompson Scholar, Presidential Scholarship

Relevant Coursework: Artificial Intelligence, Operating Systems, Software Engineering, Data Structures and Algorithms, Object-Oriented Design Concepts, Systems Programming Concepts, Database Systems, Data Science I-III

PROFESSIONAL EXPERIENCE

PMKS+, Worcester, MA

Full Stack Software Developer

August 2025 – Present

- Modernized legacy PMKS codebase and migrated old features from old engine to new
- Developed interactive visualization tools using Typescript for students building planar mechanisms
- Developed UI features which enhance user interaction by 20%
- Migrated front-end features to a responsive web interface
- Implemented URL sharing and processing with encryption and decryption, increasing website usage by 50%

Data Annotation, New York, NY

AI Trainer

June 2024 – Present

- Refined algorithms that power artificial intelligence systems
- Analyzed 1000 data points used in training artificial intelligence
- Thoroughly tested 110 artificial intelligence systems for defiance
- Conducted over 250 corrections of coding errors within models
- Assisted in training over 20 models with countless variations

ACADEMIC PROJECTS

[github.com/ivanzheng123](https://github.com/ivanzheng123)

Brigham & Woman’s Hospital Website

Full Stack Software Developer

March 2025 – May 2025

- Collaborated with Brigham & Woman’s Hospital to launch a production-ready website
- Engineered end-to-end features using the PERN (PostgreSQL, Express, React, Node.js) stack with Typescript
- Build responsive, professional UIs utilizing TailwindCSS and Shaden components increasing efficiency by 30%
- Implemented RESTful API with Fetch API to enable real-time backend communication
- Optimized database operations by leveraging Prisma ORM, cutting query development time by 40%
- Developed fully functioning speech to text and speech to speech navigation improving accessibility for all users
- Reviewed Pull Requests through GitHub, improving workflow by 50%
- Conducted research on various APIs such as Webkit Speech API and implemented features to the program
- Utilized the Agile Methodology to organize user stories, scrums, and sprints, optimizing workflow by 15%

Designing Interactive Experiences and Visualization Promoting Data Literacy

Full Stack Software Engineer & AI Specialist

August 2025 – Present

- Developed a full-stack application which aims to evaluate and develop data literacy skills
- Integrated AI features to assist in assessment of skills
- Developed user-friendly functionality to reVISit software
- Developed a fully integrated front and back end

Interdisciplinary Qualifying Project

Team Member

October 2024 – December 2024

- Collaborated with Hangzhou Hengwei Information technology to examine the roles and impacts of AI
- Conducted 70 case studies on the top 5 recurring perceptions and concerns of AI
- Strategically planned resource allocation problems associated with AI, reducing inefficiencies by 10%
- Assisted in building intelligent tutoring systems that give personalized recommendations
- Used statistical modeling and regression models on 1000 data points to derive actionable insights
- Identified 3 high-risk pain points where AI adoption faces significant challenges
- Streamlined workload within the company by 25% increasing productivity

Arduino-Based Remote Wake-on-LAN Controller

Project Lead

June 2024 – August 2024

- Developed IoT-based remote PC wake system using WoL packets
- Programmed an ESP8266 microcontroller in C to send WoL packets to my specific IP address
- Configured a secure web server for remote connection including password protection
- Implemented networking concepts such as MAC addressing and port forwarding
- Troubleshooted microcontroller configuration and programming bugs

Evolutionary Music

Project Lead

September 2023 – June 2024

- Conducted research on evolutionary computation and genetic based algorithms
- Designed an evolutionary algorithm by introducing genetics and mutations

SKILLS

- Programming: Typescript, PERN stack (Postgres, Express, React, Node.js), Java, Python, C, PL/SQL, R, C#, TailwindCSS, Shaden, Prisma ORM, Git, Angular
- APIs: OpenAI API, Mailgun API, Webkit Speech API, Elevenlabs API
- Applications: Word (Advanced), PowerPoint (Advanced), Excel (Proficient), VS Code (Proficient)
- Language: English (native), Mandarin (fluent)

INTERESTS

Reading, Writing, Esports Games, Traveling, Cooking, Puzzles, Computer Hardware