

Joey Zheng

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Education

Massachusetts Institute of Technology | Cambridge, MA

May 2024

Bachelors of Science in Computer Science & Engineering (6-3)

- Relevant Courses: Quantitative Natural Language Processing, TinyML & Efficient Deep Learning, Seminar in Undergraduate Research, Advances in Computer Vision, Applied Cryptography and Security, Software Studio, Design and Analysis of Algorithms, Theory of Computation, Probability and Random Variables

Work

Gaia-AI | Boston, MA

June 2023 - Aug 2023

Software Developer Intern

- Developed an internal dashboard in Next.js to streamline data aggregation and align team objectives
- Designed and deployed diagnostics module on backpack for real-time anomaly detection, utilizing the rospy library, and automated data collection and uploading using AWS services

DAOHQ | Remote

June 2022 - Aug 2022

Software Developer Intern

- Developed various components in Vue.js and npm package in React.js to improve SEO
- Presented lecture on "Mathematics behind Blockchain and Cryptography" for DAOHQ community

Projects

Musical Genre Classifier | Cambridge, MA

Apr 2023 - May 2023

Data Scientist in Advances in Computer Vision

- Leveraged computer vision techniques to develop model for classifying musical audio into genres
- Utilized deep learning libraries such as Keras and Librosa for audio processing

MIT OIHC Client | Cambridge, MA

Apr 2023 - May 2023

Researcher in Applied Cryptography and Security

- Designed a client aimed at simplifying integration of MIT Touchstone authentication into MIT web services.
- Explored innovative methods for cryptographically binding ID Tokens to public signing keys as team of 3

Adorify | Cambridge, MA

Nov 2022 - Dec 2022

Software Developer in Software Studio

- Developed pomodoro timer integrated with Spotify API to streamline and enhance study habits as team of 3
- Implemented user interface using Vue.js and optimized state using Vuex store management

Harmonious | Cambridge, MA

Nov 2022 - Dec 2022

Software Developer in Interactive Music Systems

- Built dynamic two-player karaoke app in Python using Kivy framework in team of 3
- Constructed and maintained audio data, designed UI/UX in reference with popular karaoke softwares

Paranoia | Cambridge, MA

Jan 2022

Team Lead in WebLab

- Awarded 5th Place (Honorable Mention) \$1000 and Gather Innovation Prize \$750
- Developed web application for playing Paranoia virtually with MERN stack in team of 2

Leadership

MIT LIVE | Cambridge, MA

Nov 2022 - Present

Founder, President

- Founded student group for MIT member who wishes for a platform for live music performances
- Manages 40+ active members and organizes all aspects of rehearsals and performances

MIT Global Teaching Lab Israel | Ben Shemen Youth Village, Israel

Jan 2023

Instructor

- Initiated very first computer science class at Ben Shemen Youth Village
- Lead 3-week curriculum for disadvantaged high schoolers in Python programming
- Designed lesson plans, coding exercises, test files, and Pygame final projects for students

Skills and Interests

Python, PyTorch, Pygame, Javascript, Vue, Vuex, HTML, CSS, MERN Full Stack, Socket.IO, React Native, Bilingual Communicator (English, Mandarin)