

Joey Zheng

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Education

Massachusetts Institute of Technology | Cambridge, MA

May 2024

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

- Relevant Courses: Advances in Computer Vision, Applied Cryptography and Security, Software Studio; WebLab; Design and Analysis of Algorithms; Theory of Computation; Probability and Random Variables

Experience

Visually Indicated Sounds on Fireworks | Cambridge, MA

Apr 2023 - Present

Data Scientist in Advances in Computer Vision

- Expanding domain of visually indicated sounds to non-human-incurred sounds
- Using libraries such as Keras for deep learning and Librosa for audio processing

MIT OIHC Client | Cambridge, MA

Apr 2023 - Present

Researcher in Applied Cryptography and Security

- Building client for simplifying integrating MIT Touchstone authentication into MIT web services
- Exploring methods for cryptographically binding ID Tokens into public signing keys

DAOHQ | Remote

June 2022 - Aug 2022

Software Developer Intern

- Implemented launchpad page UI/UX, breadcrumb, and various DAO view page components in Vue.js
- Developed ticker npm package in React.js to support core product in improving SEO
- Presented lecture on "Mathematics behind Blockchain and Cryptography" for DAOHQ community

Adorify | Cambridge, MA

Nov 2022 - Dec 2022

Software Developer in Software Studio

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

Harmonious | Cambridge, MA

Nov 2022 - Dec 2022

Software Developer in Interactive Music Systems

- Built a two-player karaoke app in Python using Kivy framework
- Constructed and maintained sound 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 online application for connecting friends through playing Paranoia virtually with MongoDB, Express.js, React.js, Node.js stack
- Implemented features such as live chat and lobby systems using Socket.IO, user login with Google OAuth and API, and custom styling using Bootstrap and other CSS libraries

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
- Organizes all aspects of rehearsals and performances
- Manages 35+ active members

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

Jan 2023

Teacher

- 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

MIT Splash | Cambridge, MA

Nov 2022

Teacher

- Prepared and delivered a lesson on RSA cryptography to a classroom of 40 high schoolers

Skills and Interests

Python, PyTorch, Pygame, Javascript, Vue, Vuex, HTML, CSS, MERN Full Stack, Socket.IO, React Native, Git, LaTeX, Bilingual Communicator (English, Mandarin), Piano, MIT Asian Dance Team