

Eunice Choi

eunicec@mit.edu | (310) 377-7263 | Cambridge, MA | eunicechoi.dev | linkedin.com/in/eunicechoi04 | github.com/eunicechoi04

EDUCATION

Massachusetts Institute of Technology

Expected May 2026

Bachelor of Science in Computer Science; Concentration in Writing

Cambridge, MA

Relevant Coursework: Software Construction, Machine Learning, Probability and Random Variables, Computer Structures, Data Structures and Algorithms, Algorithm Design, Discrete Math, C and assembly, Operating Systems, Computer Vision

Leadership & Activities: Lab Assistant for Low-Level Programming, C, and Assembly class at MIT, NCAA Varsity Women's Fencing Team, Asian American Assoc. Treasurer, Code For Good Consultant, and Educational Studies Program Web Developer

EXPERIENCES

Burmester & Vogel

Jan. 2024 – present

AI Software Developer

Cambridge, MA

- Working with **team of 6 developers** in digitizing and classifying **2k+** unstructured handwritten documents using **OCR & NLP** to analyze numerical/semantic differences and merge documents while integrating **Azure Cloud** for scalable data storage, reducing the time spent on manual review by up to **95%**, saving users hundreds of hours each month
- Implemented **custom search querying** across **1k+** historical documents and books via **elastic search** and **langgraph**
- Developing the backend of a patent-pending, interactive visualization tool for the maritime shipping industry to create audit reports in pdf and web formats, streamlining contract disputes and saving companies **+\$100,000 per document**
- Creating **predictive models** utilizing **Pytorch, Tensorflow, sci-kit**, and **numpy** to forecast trends in cargo ship loading efficiency to allow for optimization of shipping delay costs, allowing potential savings of **+\$1,000,000 per year**
- Spearheading backend **unit testing** with pytest and Postman tests for Rest API endpoints to integrate testing seamlessly into the CI/CD pipeline, achieving **100% API test coverage** and reducing bugs pre-deployment by **75%**

MIT Computer Science and Artificial Intelligence Lab | home.withmantis.com/

June – Sept. 2023

Researcher

Cambridge, MA

- Worked with a team of 8 to develop a graph embeddings visualization software for complex datasets such as research papers and git logs through fine-tuning **clustering algorithms** using Python ML libraries such as **HuggingFace, pandas, Pytorch, langchain**, audio diarization with PyAnnote, and **voice/face prints** to secure over **+\$2M** in funding

MIT Department of Urban Studies and Planning

June – Sept. 2023

Researcher

Cambridge, MA

- Spearheaded the **full-stack development** of a data analysis platform utilizing **NextJS, ReactJS, Typescript**, and **Javascript** to assess the affordability of water utility services for **200+ utility companies nationwide**, integrating **R-scripts** performing advanced analysis of geospatial and socioeconomic factors
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PROJECTS

Recipe Extractor from Short-Form Videos | recipebytes.eunicechoi.dev

- Developed a **full-stack web app** with **Next.js & React** (frontend), **Flask** (backend on **AWS EC2**), and **MySQL (AWS RDS)** to allow users to extract/save recipes from short-form videos by leveraging **computer vision (OpenCV and pytesseract)** for movement analysis and text extraction, **audio transcription** for voiceovers, and caption/comment scraping.
- Utilized **spacy** and **Pytorch** to integrate custom **NLP models** (NER, CRF, and sequence classification using BERT-based models from **HuggingFace**) stored on **AWS S3** and called via **AWS Lambda** to parse recipes.

AI Chatbot for Cleft Patient Healthcare

- Interned with Global Smile Foundation to develop an AI chat app in **Java**, using **Apache Spark** and **Kafka** for real-time patient-professional connections, and **Postgres** for patient data querying, supporting **1,000+ cleft patients in 12 countries**
 - Implemented symptom image recognition using **Pillow/PIL, OpenCV, and Pytorch** and trained NLP models in **3 languages**
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SKILLS

Python, JavaScript, TypeScript, Java, R, HTML/CSS, C, C++, C#, REST APIs, OCR, NLP, HuggingFace, PyTorch, Tensorflow, Pillow/PIL, OpenCV, pandas, numpy, pytest, Matlab, Flask, Angular, React.js, NodeJS/Express/Next, MongoDB, SQL, MySQL, NoSQL, Postgres SQL, Git version control, Docker, Azure, AWS, CI/CD, OOP, unit testing, back-end, front-end, full-stack