

Kaito Tabor

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Education

Worcester Polytechnic Institute (WPI)

Bachelor of Science, Computer Science & Data Science

GPA 3.97/4.0 Dean's List (Fall 2023, Spring 2024, Fall 2024, Spring 2025)

Worcester, MA

Expected May 2027

Relevant Coursework

Courses: Software Engineering, Advanced Database Systems, Machine Learning, Artificial Intelligence, Data Science II, Computational Theory, Advanced Data Structures & Algorithms, Data Analysis for Decision Making, Applied Statistics, Application of Probability

Work Experience

JESGO CO. Ltd (Present Role)

Machine Learning Engineer

September 2025 - Present

Remote

- Built a **static analysis** system for webpages that **flags potential vulnerability points**, validated through dynamic security testing
- Designed a **RAG pipeline** that generates targeted search queries and retrieves knowledge from aggregated cybersecurity documents, providing the agent with relevant expertise for each vulnerability under test
- Designed a **DynamoDB** optimized **database schema** to support database migration to AWS
- Implemented **dashboards** to analyze employee survey results, ESG scoring, and company stock performances

UNICS CO. LLC - Japan (Present Role)

Software Engineering Intern

October 2025 - Present

Remote

- Building a **real estate platform** with a **reactive UI** that streamlines property search and automates steps in the documenting and brokerage process
- Constructed **SQL filtered dashboards** for analyzing market trends and price drops of both public and private listings
- Created a **RAG knowledge base** to power an in-platform real estate **AI assistant**

JESGO CO. Ltd

Machine Learning Engineering Intern

June 2025 - August 2025

Roppongi, Tokyo

- Built an **ESG scoring agent** that scrapes and analyzes various online company disclosures with an **LLM pipeline**, automating ESG scoring for investing and M&A risk assessment
- **Improved data handling reliability by 21%** by creating a hybrid post-processing and pre-processing system using rule-based and LLM checks
- Scaled pipeline to evaluate **900+ ESG criteria** per company from disclosures, producing normalized ESG benchmarks across all prime-listed firms in Japan
- Deployed an **AWS Lambda chatbot** integrating dynamic prompting based on Big Five personality traits and managed user state/demographics with **DynamoDB**
- Designed **backend APIs + AWS RDS** infrastructure powering an employee survey platform used across multiple enterprises
- **Processed free-text and categorical survey responses** with LLM-based sentiment analysis and **statistical tests** (ANOVA, Chi²) to dynamically format results for frontend dashboards

Projects

Software Engineering in collaboration with Brigham & Women's Hospital

March 2025 - May 2025

- Led a **10-person team** in building a cloud-based hospital navigation and service request web app using **Agile methods**.
- Developed the web app using the **PostgreSQL, Express, React, Node.js** stack with TypeScript, Prisma ORM, Shadcn, and Tailwind
- Deployed system on **AWS EC2 + RDS** in Dockerized containers for scalability and reliability
- Implemented **pathfinding, interactive map editor, integrated request modules, and a voice-activated UI**, improving hospital usability and accessibility
- Designed and optimized the **database schema** powering hospital-wide service workflows

ASL Spelling Detection API

May 2025

- Built a **real-time ASL fingerspelling recognition system** with Flask, OpenCV, and Scikit-learn
- Achieved **96% test accuracy** and **98% validation accuracy** using a custom ML pipeline with MediaPipe + MLP
- Developed a **data collection & labeling tool** to accelerate model improvement and training quality
- Integrated API into the Brigham Hospital app, enabling an **ASL-only search feature** that improved accessibility for deaf users

EASE - SASE Hackathon

October 2024

- Built a gamified planner app as a full stack developer on a 4-person team, aiming to reduce stress in students

Technical Skills & Interests

Languages: Python, SQL, Java, JavaScript, HTML, CSS, C#, C, R

Technologies/Frameworks: PyTorch, TensorFlow, Scikit-Learn, Pandas, Langchain, Asyncio, Playwright, NumPy, OpenCV, PostgreSQL, MySQL, MongoDB, Oracle, Flask, Express, React, Node.js, TypeScript, Prisma ORM, Tailwind, AWS Lambda, AWS EC2, AWS RDS, Docker, Git, Anaconda, Markdown, Jupyter Notebook

Hobbies & Interests: Fashion | Anime | Manga | Jpop | Japanese Indies Music | Video Games | Rock Climbing & Bouldering