Kaito Tabor

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Education

Worcester Polytechnic Institute (WPI)   **Worcester, MA**
Bachelor of Science, Computer Science & Data Science   Expected May 2027
GPA 3.97/4.0   Dean's List (Fall 2023, Spring 2024, Fall 2024, Spring 2024)

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, Matrices and Linear Algebra, Applied Statistics, Application of Probability

Work Experience

JESGO CO. Ltd (Present Role)   September 2025 - Present
Machine Learning Engineer   Remote
- Developing a **white-hat AI** agent that **detects security vulnerabilitie**s in web applications using Rule and ML-based threat recognition.

UNICS CO. LLC - Japan (Present Role)   September 2025 - Present
Software Engineering Intern   Remote
- Building a **real estate platform** with a **reactive UI** that streamlines property search and automates steps in the documenting and brokerage process.

JESGO CO. Ltd   June 2025 - August 2025
Machine Learning Engineering Intern   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 **MongoDB**.
- 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 **PERN** (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
- **Collaborated in a 4-person team** to build a gamified planner app that reduced teen stress through interactive task planning.
- Designed and trained a **Deep Neural Network** on synthetic data, achieving **85% accuracy** in predicting task difficulty and stress levels.
- Built and integrated **front-end UI + back-end APIs**, ensuring smooth data flow and a responsive user experience.

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