



Koya Saito
Bachelor of Science
Michigan state University
Computational Data Science

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ACHIEVEMENTS

- ★ Board Member then President: MSUEA
- ★ Winner, SpartaHack 8: LectureAI
- ★ Winner, BNVC challenge SS22: Remy
- ★ Podium, CodeGreen Hackathon: Fetal State

SKILLS

Advanced Python: Pandas, Tensorflow, Matplotlib, Scikit-learn, PyTorch, Requests, Numpy, Tkinter
Web Development: React js, JavaScript, Firebase, SQL, REST API, Flask

EDUCATION

Michigan State University | Lansing, MI

May 24

Coursework: Intro to AI, Intro to ML, Parallel Computing, ML Optimization, Calculus III, Matrix Algebra, Probability and Statistics, Database Systems, Innovation Abroad: Israel Study Abroad, Human Values & Ethics

PROFESSIONAL EXPERIENCE

Prophetic | New York, NY

May 23 – Oct 24

Founding Engineer, Software Developer

- Worked in a dynamic, unstructured, autonomous, fast-paced, decisive manner to deliver ad-hoc solutions.
- Deployed hardware and software demonstrations of novel technology, ultimately winning rounds of funding.
- Improved comfort, convenience and user experience of prototype through iterative development and feedback loop.
- Trained experiment-tracked models with WandB on self-collected multivariate time series and generated features.
- Produced high accuracy MATLAB simulations of TFUS beam forming while balancing multiple project assignments.
- Learned IOS development in 3 weeks to create demo IOS app. Deployed demo successfully to secure fundraising.
- Enhanced in-house transformer model via layer isolation & continued training on expanded dataset with weight decay.

IZEA | Orlando, FL

Jun 22 – May 23

Junior Data Analytics Coordinator, Data Science DPT

- Led 16 interns in campaign support through SaaS data ingestion, data visualization and KPI tracking.
- Consolidated unstructured and distributed data sources into analysis-ready datasets with API and SQL queries.
- Discovered and addressed CM needs by conducting self-initiated interviews of team members across departments.
- Forecasted campaign cost and performance using unsupervised learning and statistical data modeling.
- Achieved faster weekly turnarounds by automating reporting calculations with a Tableau dashboard.

Fraunhofer USA | East Lansing, MI

Jan 20 – May 22

Lab Assistant

- Detected current response by implementing electro-impedance spectroscopy + cyclic voltammetry circuit.
- Reduced circuit noise and increased reliability of existing circuits by taking advantage of noise reduction algorithms.

EXTRACURRICULAR WORK

Michigan State Entrepreneurship Association | East Lansing, MI

May 20 - Jul 23

Co-President

- Secured and disbursed \$20,000 to student-led startups through events.
- Led the board through organized and facilitated planning of weekly club meetings, trips and hosted events.
- Successfully presented events to the student body. Among which a pitch competition, a trip to San Diego/LA to visit accelerators and startup founders, a 3-day speaker series and a career fair with 20 companies and >100 attendees.

MSU AI Club | East Lansing, MI

Jan 23 – Aug 23

Project Lead

- ShortForm, Project Lead: Managing team of 5 undergraduates to build an unsupervised LLM based tool for repurposing long form video to short form content with an intuitive web interface.
- Casual exploration of machine learning models (decision tree, MLP/NN architectures, MediaPipe image processing, adversarial attacks, SVM classification, CNN architectures).

ACADEMIC PROJECTS

Extended information on koyasaito.com

- **(HTML, CSS, JavaScript)** Discovered patterns in populations during epidemics by creating a tunable simulation.
- **(Data Mining, Python)** Created a visual map of themes by scraping images of social media posts about project ideas, extracting text, creating vectorized embeddings with GPT and mathematically decomposing embeddings.
- **(Python, NetworkX)** Mined top 100 player's card choices and analyzed to produce deck recommendations.