

Anthony Nicholas Kovari

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EXPERIENCE

Project Engineer, Toyota Automated Logistics

JUN. 2023 - Present

- Managed digital product solutions for multi-billion dollar companies like CAT, UPS, Estee Lauder, and Scholastic, including a project for Parts Town that more than doubled their expected profits.
- Leveraged Azure DevOps to manage cross-functional teams across development, sales, design, QA, business analysts, ensuring seamless communication and coordination of complex projects.
- Utilized Git/GitHub and CI/CD pipelines to build scalable, maintainable automation solutions across client projects.
- Optimized SQL procedures and built Bash/PowerShell automation scripts, reducing query execution time by 20% and saving 20+ hours of manual work monthly.

Machine Learning Capstone Project, United Airlines

JAN. 2023 - JUN. 2023

- Built Aircraft Assessor, a tool that scored plane interiors/exterior on wear & tear and informed repair teams when defects were found, reducing manual QA time from hours to seconds.
- Utilized TensorFlow, Resnet-50, and image augmentation to build the three custom convolutional neural networks that powered the aircraft image classifier.
- Created UI for the web app using React, built backend with Python/Flask/Firebase, containerized it with Docker.
- Built ETL data pipeline to ingest images from emails and tweets for classification using Python Twitter API.

Product Owner Intern, Techno ERP

JUN. 2022 - AUG. 2022

- Redesigned backend architecture, migrating on-prem database to a PostgreSQL instance on AWS RDS. Designed relational schemas to support core ERP modules including inventory, purchasing, and order management.
- Optimized SQL queries, reducing latency and improving UI response times across their ERP app.
- Introduced Agile methodologies with Jira and Trello, streamlining task management for the founding team.

PROJECTS

Computer Vision - Satellite Image Classification

- Built end-to-end machine learning system to classify satellite imagery by land use, enabling automated tracking of deforestation and urban sprawl over time.
- Trained ResNet-18 image recognition model on the EuroSAT satellite dataset to identify land-use categories. Used PyTorch and torchvision.

Edge Artificial Intelligence - Wildlife AI Monitor

- Deployed a TensorFlow Lite BirdNet model on a Google Coral Board with an Edge TPU, building a solar-powered edge device in the forest that autonomously identifies bird species in the wild. Deployed classroom demonstrations on a NVIDIA Jensen Board.
- Integrated the device with a citizen science bird database, enabling real-time wildlife sightings to be logged and contributed to broader ecological research.

EDUCATION

Michigan State University

SEPT. 2019 - JUN. 2023

- B.S. in Computer Science, Minor in Chinese.
- Chapter President of Engineers For A Sustainable World. Grew club from 3 members to >100 during my tenure.

TOOLS

- **Programming Languages:** Python, C++, TypeScript, JavaScript, HTML, CSS, SQL, Bash
- **AI/ML Libraries:** Pandas, Numpy, Matplotlib, PyTorch, scikit-learn, JAX, Keras
- **Frameworks/DBs:** React, Node.js, Flask, PostgreSQL, MySQL, MariaDB
- **Tools:** Git, GitHub, AWS, Docker, Linux/UNIX

SKILLS

- **Skills:** Full-stack software development, deep learning, computer vision, ETL pipeline development, REST API design, database architecture, cloud infrastructure (AWS), edge computing, CI/CD, Agile methodologies, data analysis, project management, scrum certified
- **Languages:** English, Mandarin