

YUTA A. KOIKE

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EDUCATION

UNIVERSITY OF SANTO TOMAS

Sampaloc, Manila
Bachelor of Science in Computer Science (expected 2026)
Specializing in Data Science

2022 - Present

SKILLS, ABILITIES, AND CERTIFICATIONS

Front-End Development: ReactJs, HTML & CSS, TailwindCSS

Back-End Development: Django, REST, JavaScript, TypeScript, Python, Java, Postman

Machine Learning: Experience using computer vision and data augmentation

Data Analytics and Visualization: Experience using SAS Viya, Python, Anaconda, Jupyter Notebook

Database Management: MySQL, PostgreSQL

Certifications:

- Responsive Web Design (freeCodeCamp)
- Databases and SQL for Data Science with Python (coursera)

ACADEMIC PROJECTS

MediStock Connect: Integrated Medical Outsourcing and Management Platform

Full-Stack Developer

- Developed a full-stack inventory management module featuring item tracking, sales invoicing, and automated sales reporting.
- Designed and implemented a static company website to enhance online presence and client credibility.
- Applied SEO best practices to improve search visibility and overall website reach.

Enhancing Solid Waste Management with Computer Vision: Optimizing ResNet-50 with YOLOv5 and Data Augmentation

Lead Programmer/ML

- Led model development by training a TACO dataset and performing extensive data augmentation to improve detection accuracy.
- Fine-tuned YOLOv5 with a ResNet-50 backbone, optimizing hyperparameters to achieve higher precision and robust performance.
- Built an interactive web demo UI that supports image upload and real-time waste detection using a webcam feed.

Course Requirement Projects

Web Developer

- Developed web applications using Java, HTML, CSS, and Python as part of course requirements.
- Applied front-end and back-end fundamentals to build responsive interfaces and functional web features.
- Created mobile application prototypes using Flutter and Dart.
- Leveraged Python (NumPy, Pandas, Scikit-learn) to build and evaluate machine learning models and conduct data analysis to support data-driven decision-making.

NON-ACADEMIC PROJECTS

YK: Personalized Web App Portfolio

Front-End Developer

- Developed a responsive personal portfolio website to showcase projects, skills, and background.

Trucking Services BIG C: Company Website

Front-End Developer

- Developed a static front-end website to present the company's trucking services and business profile.