Hein Htut Zaw

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EDUCATION

The State University of New York, Korea - Stony Brook NY
BSc in Computer Science (Specialization: Data Science & Artificial Intelligence) Graduation: August 2025
GPA: 3.88/4.00, Summa Cum Laude, BSMS Accelerated Program
Relevant Courses: Machine Learning, Artificial Intelligence, Probability and Statistics for Data Scientists, Computer Vision, Data Structures, Algorithms, Software Development

SKILLS AND CERTIFICATIONS

Programming Languages: Python, C, Cpp, Java, JavaScript, SQL
Frameworks/Tools: Tableau, Django, Flask, GCP, AWS, Scikit-learn, TensorFlow, Pandas, Pytorch, Numpy, Matplotlib, Seaborn, Git, UML, HTML, CSS, React, Expo, Express, MongoDB, Linux
Certifications: Machine Learning Specialization (January 2024)

WORK EXPERIENCE

Software Engineer Intern - SPOit August 2025 - Present

- Developed new features for the ***KIX mobile camera app***, taking full ownership across *backend (Flask)*, *frontend (Expo React Native)*, *database (Supabase)* layers, testing and deployment
- Published the app on both *iOS* and *Android*, integrating *CI/CD pipelines* and *Docker-based deployments* and used *Google Cloud Platform* for transcoding, storing videos and hosting the server
- Improved the **computer vision pipeline** for football match footage, enhancing *object detection*, *player team classification*, *object tracking*, and *3D-to-2D field coordinate projection* by 30%

Undergraduate Research Assistant - SUNY Korea Feb 2025 - Aug 2025

- Implemented camera calibration using single-image depth estimation with NuScenes and KITTI datasets
- Utilized state-of-the-art depth estimation models, such as ML-Depth Pro and Depth-Anything, with LiDAR data and Iterative Closest Point (ICP) to find novel approach of camera calibration

PROJECTS

Simplify | *React JS, MongoDB, Express, Node.js, Jest, Vite, Figma* Ongoing

- Developing an AI-driven self-care assistant that provides personalized skincare recommendations, AI-powered skin analysis, and gamification features for enhanced user engagement
- Integrating LangChain, Llama, and FaceApp API for chatbot assistance and skin diagnostics, leveraging the MERN stack to implement leaderboards, AI Skin Lab, chat functionality, product recommendations
- Ensured robust testing with Vitest, automating CI/CD using GitHub Actions and GitHub Pages, and deploying on Render for a seamless, fully responsive user experience

Statistical Data Analysis Of NYC Taxi Trip Data | *Python, Numpy* April 2024

- Executed exploratory data analysis on a 2-month taxi fare dataset, and applied interpolation techniques to fill gaps
- Implemented Wald, T, Z, Kolmogorov–Smirnov, Permutation, Chi-Squared, and Bayesian tests from scratch
- Developed multiple linear regression predictive model and conducted feature engineering

Cognizant Artificial Intelligence Job Simulation on Forage | *Python, Numpy, Tensorflow* February 2024

- Conducted exploratory data analysis of a 7-day sensor and sales dataset for one of Cognizant's technology-led clients, Gala Groceries, and extracted insights for efficient stocking and management of supermarket systems
- Designed Data Modeling and presented the workflow to the Data Science Leader
- Prepared multiple linear regression with scikit-learn and TensorFlow, and outputted the performance metrics

Robotic Arm | *Python, Cpp, Robot Operating System(ROS), Arduino* March 2021 - June 2021

- Designed and built a 6 Degrees Of Freedom (DOF) robotic arm with grabber arm mechanism
- Implemented real-time inverse kinematics using rviz2, gazebo, moveIt package in ROS, and Arduino IDE
- Enhanced functionality and precision of the robotic arm using Proportional-Integrative-Derivative control (PID)

References available upon request