

TAM ZHER MIN

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ABOUT

- Architected an “Automatic Wafer Defect Classification System” with a Windows GUI to deploy >95% accurate CNN models at SSMC, enabling upwards of >90% storage reductions and significant cost savings
- Well-versed in data pipelining tools to feed data into models and visualizations through the 2 internships
- Pursuing a Data Engineering Minor alongside my formal Electrical Engineering Bachelor’s Degree
- Keen interests in AI/ML, Data and Software Engineering, constantly self-learning, seeking opportunities

EXPERIENCE

SSMC (NXP & TSMC JV) – MACHINE LEARNING ENGINEER AUG 2021 – JAN 2022

- Trained Convolutional Neural Networks (CNNs) to classify wafer scans at >95% out-of-sample accuracy
- Leveraged on Tensorflow/Keras and transfer learning alongside cloud computing as well as NVIDIA CUDA/CuDNN for local hardware accelerated training
- Deployed the models with the final product, a Windows GUI software, and an MVP Streamlit webapp

TIVLON TECHNOLOGIES – DATA ENGINEER & SCIENTIST MAY 2019 – DEC 2019

- Cleaned and restructured large amounts of raw Excel data containing commodities’ historical prices
- Automated an ETL pipeline using Python's data management libraries such as Pandas and Dask
- Visualized the formatted data by employing cutting-edge BI tools such as Power BI and Tableau

COCURRICULAR ACTIVITIES

- Honing my Machine Learning skills under NUS FinTech Society through various Fintech projects
- Developed and maintained NUS CAPTLife (hostel’s student life website) with WordPress
- Designed UI/UX Figma mockups for Ladle.SG’s app, a social enterprise incubated under NUS SIC

PERSONAL PROJECTS

- Built an NFT appraisal model using CNNs into a regressor through the nftshowroom API
- Designed a personal portfolio website in vanilla HTML/CSS/JS and a movie searching webapp with React
- Automated Instagram post-generation with scraped content using Python’s BS4, Selenium & Pillow

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE AUG 2019 – MAY 2023

Bachelor of Engineering, Electrical Engineering; Minor in Data Engineering

GPA: 4.42

- **[EE2211: A-]** Machine Learning through linear & polynomial regression, gradient descent, decision trees, random forest, k-means clustering, multi-layer perceptron and neural networks
- **[EE2028: A]** Built a med-tech IoT Tkinter GUI with live charting by drawing serial data from the STM32 Cortex-M4 microprocessor alongside SMS alerts through Twilio's API
- **[EE2026: A]** Programmed a 53-state voice-interfaced RPG with pixel graphics on the Basys3 FPGA
- **[IE2141: A]** Modelled and simulated real-world scenarios and variables using Stella Architect

HACKATHONS

DSTA – BRAINHACK JUN 2021

- **TIL:** Rank 18 in this Machine Learning team hackathon on Computer Vision and Sound Classification
- **SeeTrue:** Rank 7 in this Machine Learning solo hackathon in detecting fake news in images and videos
- **CODE_EXP:** Built *TooHak!*, a quiz-maker React Native app to ease remote learning and teaching

NUS HACKERS – HACK & ROLL JAN 2021

- Built an Alexa "skill" dubbed *QuizLah!*, a VUI Local-Multiplayer Singapore Trivia Game