**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