

# Tam Zher Min

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## OVERVIEW

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- Actively seeking Summer Internship for May – Aug 2022 in Software / Data / Machine Learning Engineering
- Currently developing LaidLE, a Food Crowdsourcing Django CRUD webapp hosted on Heroku with a PostgreSQL backend and session-based authentication
- Also built a Streamlit webapp to predict Singapore HDB resale prices using traditional ML and neural networks
- Architected an “Automatic Wafer Defect Classification System” wrapped in a Windows software to deploy >95% accurate CNN models, enabling upwards of >90% storage reductions and tens of thousands in cost savings
- A motivated self-learner that actively picks up in-demand skills on top of my degree in Electrical Engineering

## EXPERIENCE

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### ripplecreate – Machine Learning Engineer

Feb 2022 — Apr 2022

- Developed Computer Vision models to index student’s attention during online lessons for enhanced learning
- Sent real-time model data to a **Firestore** backend before serving them to a **React** frontend with live dashboards for better monitoring for teachers and parents

### Buhler – Data Scientist

Jan 2022 — Mar 2022

- Massaged and analyzed Big Data, optimizing flour milling production for multiple international stakeholders
- Productionized the existing code base of data-pipelining algorithms for scalable monthly reports and visualizations

### SSMC (TSMC & NXP 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 in an MVP **Streamlit webapp** and a final product packaged in a Windows Tkinter GUI

### Tivlon Technologies – Data Scientist

May 2019 — Dec 2019

- Cleaned and restructured large amounts of raw **Excel** data containing commodities’ historical prices and inventory
- Automated an ETL pipeline using **Python**’s data management libraries such as **Pandas**, **Numpy** and **Dask**
- Dashboarded the formatted data by employing industry-standard BI tools such as **Power BI** and **Tableau**

## EDUCATION

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### National University of Singapore

Aug 2019 — May 2023

*Bachelor of Engineering, Electrical Engineering; Minor in Data Engineering*

GPA: 4.42

- **[IT2002: Ongoing]** Django/Heroku CRUD app, PostgreSQL backend, Bootstrap and Database Schema Design
- **[EE4802: Ongoing]** Application of ML in deep learning and a HDB resale price prediction project
- **[EE2211: A-]** Introduction to Machine Learning in regression, classification and clustering
- **[EE2028: A]** Built a medtech IoT Tkinter GUI with live charting by drawing serial data from the STM32 Cortex-M4 microprocessor accompanied with SMS alerts through the Twilio API in **C**, **Assembly** and **Python**
- **[EE2026: A]** Programmed in Verilog a 53-state voice-interfaced RPG with pixel graphics on the Basys3 FPGA

## HACKATHONS

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### DSTA – BRAINHACK

Jun 2021

- **TIL**: Rank 18/100 in this Machine Learning team hackathon on Computer Vision and Sound Classification
- **SeeTrue**: Rank 7/50 in this Machine Learning solo hackathon on 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

- Collaboratively built QuizLah!, a Javascript Alexa ”skill” for a VUI Local-Multiplayer Singapore Trivia Game