

# ZAC TAM

## NUS U.GRAD ELECTRICAL ENGINEERING

### CONTACT

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### PROFILE

A keen and fast learner, I constantly look for opportunities and explore beyond my curriculum. Hoping to gather hands-on experience in the world of Computer Science & Tech!

Internship availability under NUS from **19 July 2021 to 31 Dec 2021**.

### INTERESTS

- Machine Learning
- Data Science & Engineering
- Full-Stack Development
- Hardware Programming

### SKILLS

- Python
  - Data: Pandas, Matplotlib, Dask
  - ML: Numpy, Sklearn
  - Web Scraping: BS4, Selenium
- C / Assembly / Verilog / Arduino
- M.Soft Power BI / Tableau / SQL
- JS / React / JQuery
- HTML / CSS / SASS
- Stella Architect / MatLab
- Git

### EDUCATION

#### BACHELOR OF ENGINEERING, ELECTRICAL ENGINEERING

NATIONAL UNIVERSITY OF SINGAPORE | 2019 - 2023

GPA: 4.43

- EE2028: A | Built an IoT Tkinter GUI with live visualizations by drawing serial data from the STM32 Cortex-M4 microprocessor including SMS alerts through Twilio's API
- EE2026: A | Programmed a 53-state voice-interfaced combat RPG with pixel graphics on the Basys3 FPGA
- EG1311: A- | Assembled from scratch a Bluetooth-enabled Arduino 4-wheeled vehicle, clearing an obstacle course

### EXPERIENCE

#### DATA SCIENTIST & ENGINEER

TIVLON TECHNOLOGIES | MAY 2019 - DEC 2020

- Cleaned and restructured large amounts of Excel data
- Automated an ETL pipeline using Python's data management libraries such as Pandas and Dask
- Visualized and organized cleaned data employing cutting-edge BI tools such as Power BI and Tableau
- Managed the entire code base solo and pushed the product live for consumer usage

#### CO-CURRICULAR PROJECTS

- Developed and maintained NUS CAPTLife (hostel life) website utilizing WordPress

#### ENTREPRENEURIAL

- Building Ladle.SG, a tech social enterprise incubated under NUS SIC to tackle food insecurity in Singapore

#### PERSONAL PROJECTS

- Movie searching webapp with React and themoviedb API
- Portfolio website written in JS, JQuery, HTML & CSS
- Automated Instagram post-generation with scrapped quotes using libraries such as BS4, Selenium and Pillow

### HACKATHONS

#### FREESTYLE

NUS HACKERS - HACK & ROLL | JAN 2021

- Built an Alexa "skill" dubbed "QuizLah!" with a team of 4
- QuizLah! is a VUI Local Multiplayer Singapore Trivia Game

#### DATA SCIENCE

SHOPEE - I'M THE BEST CODER | 2019 & 2020

#### CYBERSECURITY

DSTA - CYBER DEFENDERS DISCOVERY CAMP | JUL 2020

- Learned and delved into Linux/UNIX, Ethical Hacking, Networking, Penetration Testing from DSTA's tutorials

CSIT - THE INFOSECURITY CHALLENGE | AUG 2020

GOVTECH - STACK THE FLAG | DEC 2020