

ELIJAH NG

Full Stack Machine Learning Engineer

CONTACT

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SKILLS

Math Modelling
Deep Learning (PyTorch)
Data Science
Python
Web Development
Project Management

EDUCATION

National University of
Singapore

2017-2021

Engineering Science Major with
double specializations in
computation & medicine.
Minor in CS.
A- Median Grade.

University of Toronto

2020

University exchange to learn
from Prof. Steve Mann (father
of wearable computing)

PROFILE

I'm a versatile engineer with a talent for solving complex problems across domains, whether building mathematical models or designing user experiences. I thrive in environments that embrace creative (sometimes janky) problem solving, wearing many hats, and being dropped in the deep end.

EXPERIENCE

Full Stack Engineer @ Pacts

2024

Built airdrops-as-a-service platform with Pacts:

- Designed & developed frontend and telegram bot clients
- Implemented on-chain activity tracking and reward distribution system

Indie Data Scientist/Software Engineer

2023-Present

Took up diverse engineering projects with measurable impact:

- Optimized DreamBooth image generation, reducing VRAM by >50% and training costs by 35%
 - Built audited crypto index fund backtesting system, processing 2,000+ tokens over 10 years
 - Developed verifiably random blockchain lottery system
- Also built degencryptojobs.com which has 20k monthly visitors

Cofounder @ MarinaChain

2022

Built a data analytics tool to estimate the carbon emissions of Maritime vessels based on satellite and ship spec data.

AI Engineer & Tech Lead @ MindPointEye

2021

Led regional object detection team at edge AI startup, driving key improvements:

- Developed semi-supervised labeling system and automated hyperparameter tuning
- Improved main model mAP from 0.70 to 0.85 and size through data augmentation and learning optimizer improvements

ACTIVITIES

ETHTokyo 2023: #1 Winner for Best Dashboard: Built an analytics dashboard for Fusion Swap. Had to pivot into it solo with less than 16 hours left.

ETHGlobal 2022: Picked up solidity and built a composable NFT standard with royalty splitting.

FAILED PROJECTS

undertherocknews.com: An LLM-powered news filter that does not send daily/weekly news, but only when there's something worth reading.

Metaverse-centric NFT marketplace: started with metaverse discovery features, tried to end with an NFT marketplace for metaverse wearables. Was the main motivation for experimenting with royalty splitting.

Wearable heart stroke volume sensor: a bioimpedance based sensor that would be worn on the wrist (and embedded into a smart watch). Required the application of an uncomfortable amount of electrical current through the skin to be functional.