

Derrick TAY Zhi Rong

Strong passion for biomedical devices and software development

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EDUCATION

Nanyang Technology University (NTU)

Aug 2021 – May 2025 (Expected)

Bachelor of Engineering (Chemical and Biomolecular Engineering)

Yishun Junior College, Singapore

Feb 2017 – Dec 2018

Singapore-Cambridge General Certification of Education Advanced Level

- Subjects: Biology, Chemistry, Mathematics, Economics

WORK EXPERIENCES

The Logic Coders | Teacher

Mar 2021 - Present

- Taught python programming to students aged 8 and above, covering from syntax to functions and libraries
- Guided students aged 6 and above to prototype models using drag and drop programming and EV3 Lego sets

Elitely | Software Developer

Mar 2022 – Aug 2022

- Participated in the planning and building of full stack website using NextJS
- Designed schemas and implemented database using MongoDB to store details of users
- Built user authentication and file storage system using AWS Amplify and AWS S3
- Implement payment integration using Stripe

PERSONAL PROJECTS

Netflix Clone

- Cloned the Netflix website that allows users to watch movie trailers
- Integrated firebase authentication to allow account creation and package subscription using Stripe payment API
- Utilized: React, Redux, Firebase, Stripe

Birdex

- Built a full-stack website with CRUD framework to keep track of different bird species and their weight for analytical purposes
- Utilized: React, Postgresql, Express, Node.js

EXTRACURRICULAR ACTIVITIES

Physical Education Council Organizing Committee | Yishun Junior College

Aug 2017

- Led 40 physical education representatives from all classes to spread health awareness.

Basketball Captain | Christ Church Secondary School

Jun 2015 – Jun 2016

- Led the team to participate in Regional Competitions thereby achieving a top 10 position.
- Supervised physical training sessions to improve the capability of the team.

VOLUNTEER EXPERIENCES

Community Service and Engaging Seniors | Sunshine Welfare Action Mission

Jun 2017

- Led a group of 5 to design activities for the elderly to increase their mental ability and engagement level.

AWARDS & CERTIFICATES

SQL and Data Visualization - The Complete Bootcamp | Udemy

Jun 2021

AI for Industry: Foundations in AI | AI Singapore

Jul 2020

SKILLS & LANGUAGE PROFICIENCY

Top Skills: Python, JavaScript, PSQL, ReactJS, HTML, CSS

Problem Solving, Adaptability, Leadership, Flexibility, Attention to Details

Language (Spoken & Written): English, Mandarin