

Chay Hui Xiang

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EDUCATION

University of California, Berkeley

Aug. 2023 – May 2024

B.Eng.Sci in Computer Science — GPA 4.00 / 4.00

- International Champion at Google Solution Challenge 2023 amongst over 2000 teams from renowned institutions
- Courseworks: CS161 Computer Security, CS170 Algorithms, CS184 Computer Graphics, CS198 Linux

Nanyang Technological University

Jul. 2021 – Dec 2025

M.Sc in Technology Management & B.Eng.Sci in Computer Science — GPA 4.85 / 5.00

- 1 of 36 Penultimates in Singapore pursuing NTU's Flagship Direct Masters Renaissance Engineering Programme
- 1 of 24 recipients in Singapore of the prestigious Renaissance Engineering Programme Scholarship
- Courseworks: Data Structures and Algorithms, Data Science and Artificial Intelligence, Object-Oriented Programming, Operating Systems, Software Engineering, Database Systems

PROJECTS & ACHIEVEMENTS

International Champion, Google Solution Challenge 2023 | *Project Link*

Feb 2023 – Aug 2023

- Orchestrated the architecture of an enterprise level solution to address dementia wandering with Google Cloud Platform technologies, including Cloud Run, Firebase, Maps Platform, Load Balancing, BigQuery
- Spearheaded the technical development of the entire application stack, including Go, Flutter and Arduino

Champion, High Performance Computing Innovation Challenge 2022

Apr 2022 – Sep 2022

- Initiated development of an assessment software to determine the walkability of streets, utilising image segmentation, data scraping techniques, machine learning models trained via supercomputing technologies
- Organised by the National Supercomputing Centre, Singapore's leader in supercomputing technology

Champion, NUS Data Analytics Competition 2022

Feb 2022

- Scrutinised geospatial datasets using Python, Pandas, Dask and various visualisation libraries featuring transport data in Singapore and Jakarta to formulate solutions to tackle late arrivals for Grab

EXPERIENCE

Software Engineer Intern | *TikTok / ByteDance*

May 2024 – Current

React, Typescript

- Orchestrating the revamp of various external-facing applications that were previously built with internal low-code tools, greatly enhancing their customisability and utility

Software Engineer Intern | *Mobbin*

May 2023 – Dec 2023

NextJS, React, PostgreSQL, BigQuery

- Spearheaded copious features for their flagship product frontend, culminating in a 35% rise in product conversions
- Drove product decisions by performing A/B tests, and applying data engineering and dashboarding expertise

Software Engineer Intern | *Switchero Labs*

May 2022 – Jul 2022

React, Typescript, Redux, Solidity, Blockchain Development

- Demonstrated expertise in frontend, backend and blockchain development by integrating chain-bridging transactions, wallet providers and smart contracts (Binance, Ethereum) all across the entire application stack

Software Engineer Intern | *Trilogy Technologies*

Dec 2020 – May 2021

React, Bootstrap, NodeJS Express, Firebase, Arduino

- Company representative @ Healthcare Open Innovation Challenge 2020 with a full-fledged pill dispenser
- Single-handedly orchestrated a full-stack sensor-monitoring service that incorporates frontend dashboards in React, a data-streaming backend in Express, and NoSQL database, with fully integrated data fetching and APIs

TECHNICAL SKILLS

Languages: C, C++, Java, Python, Go (Golang), Javascript, Typescript, HTML, CSS, Dart, SQL, Solidity

Frameworks & Technologies: React, NextJS, React Native, Flutter, Express, Flask, Gin, MongoDB, Firebase, Supabase, SQLite, PostgreSQL

DevOps: Git, Github Actions, Docker, Amazon Web Services, Google Cloud Platform

Libraries: Pandas, TensorFlow, PyTorch, Matplotlib, Seaborn