Chay Hui Xiang

(+65) 9003 5488 | huixiang@berkeley.edu | linkedin.com/in/hui-xiang/ | github.com/chayhuixiang | chayhuixiang.com

EDUCATION

University of California, Berkeley — Berkeley, California
GLOBE Visiting Scholar Program, Computer Science — *Aug. 2023 – May 2024*

Nanyang Technological University — Singapore, Singapore
M.Sc in Technology Management & B.Eng.Sci in Computer Science — *Jul. 2021 – Dec 2025*

EXPERIENCE

Software Engineer Intern | *Mobbin* — May 2023 – Present
NextJS, React, PostgreSQL, BigQuery
- Spearheaded the enhancement of multiple features in their flagship product frontend, including a refresh of their landing page and sign up experience, culminating in a 35% increase in product conversions
- Drove various product decisions by formulating data-driven insights, performing A/B tests, applying data engineering expertise, and developing comprehensive data dashboards as part of the Growth Team

Junior Data Analyst | *Fisher8 Capital* — Jul 2022 – Apr 2023
TensorFlow, Scikit-learn, Keras, Pandas, Deep Learning
- Performed a data analyst role in analysing football player performances and predicting match results
- Pioneered the company's machine learning endeavours via various model architectures including Artificial Neural Networks, Support Vector Machines etc., achieving an outcome prediction of 67% accuracy

Software Developer Intern | *Switcheo Labs* — May 2022 – Jul 2022
React, Typescript, Redux, Solidity, Blockchain Development
- Incorporated chain-bridging transactions via various frontend and backend libraries (ethers.js, solidity etc.), successfully integrating various wallet providers (Metamask, WalletConnect etc.)
- Wrote smart contracts in Solidity and C#, greatly facilitating bridging with EVM (Binance, Ethereum) & Neo

Software Engineer Intern | *Trilogy Technologies* — Dec 2020 – May 2021
React, Bootstrap, NodeJS Express, Firebase, Arduino
- Wrote entire firmware codebase for a IV Drip Monitor, using a ATMega328 MCU and Arduino
- Represented the company as part of Healthcare Open Innovation Challenge 2020 with an elderly-friendly pill dispenser developed with Raspberry Pi, Python Tkinter and Firebase
- Successfully orchestrated a full-stack service via a ReactJS frontend dashboard, fully integrated with a NodeJS Express data streaming backend to process incoming data from an ESP32 onto Cloud Firestore

AWARDS & ACHIEVEMENTS

Global Top 10, Google Solutions Challenge 2023 (Ongoing) — Feb 2022 – Present
- 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 a numerical assessment tool for predicting walkability of streets
- Utilised image segmentation, data scraping techniques, machine learning models trained via supercomputing

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

3rd Prize, Taiwan International Science Fair 2018 — Jan 2018 – Feb 2018

TECHNICAL SKILLS

Languages: C, Java, Python, Javascript, Typescript, HTML, CSS, Dart, SQL, Solidity
Frameworks & Technologies: React, NextJS, React Native, Flutter, Express, Flask, MongoDB, Firebase, Supabase, SQLite, PostgreSQL, Sentry
DevOps: Git, Github Actions, Docker, Amazon Web Services, Google Cloud Platform
Libraries: Pandas, TensorFlow, PyTorch, Matplotlib, Seaborn