

Edmond Tam Han Wen

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WORK EXPERIENCE

HeartRithm

London, United Kingdom

Crypto hedge fund aiming to be the largest institutional donor in the world

Full-Stack Web3 Engineer

November 2021 – Present

- Designed the deposit/withdrawal process and Chainlink oracle component for our decentralised fund on Ethereum, wrote Solidity smart contracts to bridge on-chain assets to off-chain exchanges, and established our ecosystem's flow of funds
- Designed and implemented market-neutral futures arbitrage bot on centralised exchanges, including automated portfolio optimisation via CVXPY and pandas, live position managers, and accounting tools for an expected return of 20% APY
- Supported the development of our margin lending strategy: added KuCoin as an additional platform for lending, built email and Google Sheets integrations for reporting, and optimised lending algorithm to increase returns during lull periods
- Drove improvements to our decision-making process using protocols based on behavioural economics

HUMAN

London, United Kingdom

Cybersecurity company protecting enterprises from bot attacks to keep the internet human

Software Engineer

November 2020 – November 2021

- Designed and built Python CI/CD tool for DB migrations on Snowflake, improving development reliability and speed
- Implemented a Node.js SDK that consolidated HUMAN bot mitigation logic across multiple cloud platforms and CDNs
- Maintained pipeline of 300k transformations/day on Datadog and Go streaming tool at 99.9 SLA by adding tests and fixes
- Reviewed cross-team platform and product design docs, while updating architecture and usage docs for knowledge sharing

Jade

London, United Kingdom

Open-source framework for deploying JAMstack applications - see <https://jadeframework.dev>

Co-creator, Software Engineer

April 2020 – November 2020

- Co-created Jade, a framework to automate JAMstack app deployment via AWS services (EC2, S3, Lambda, CloudFront)
- Automated setup and modification of EC2 instances by using Node.js Promises and SSH/SFTP protocols
- Developed instant CDN cache invalidation system using AWS Lambdas and S3 events
- Deployed responsive Jade dashboard using React, Material-UI and Express for users to view historical builds and app info

Self-employed

London, United Kingdom

Full-stack web developer

May 2019 – March 2020

- Deployed Brain Analytics' ML models to quantitatively model sports games with <500ms response time using Cython
- Developed Reaction, a project management app similar to Trello built using React, Redux, Rails and PostgreSQL
- Wrote Ticketing Machine, a GitHub-like app used to manage projects, tickets and comments for teams, written in Rails
- Launched Route Planner, a React app where users can choose from available flight routes by clicking on a map

Teneo Management Consulting

London, United Kingdom

Market-leading strategy consultancy division of a global CEO-advisory firm

Strategy Consultant

Jan 2017 – May 2019

- Designed and implemented VBA macros to help turn around a transport company facing an urgent and critical crisis
- Worked with Citrix to redesign their sales renewal team to improve customer retention, engagement and satisfaction

Tablo LLC

Cambridge, United Kingdom

Fashion-tech business based on an app that uses photos to calculate users' body measurements

Co-founder

April 2013 – May 2015

- Responsible for fundraising, operations and marketing of Tablo – pitched the final round of the Founder.org competition
- Oversaw development of the prototype, architecture, and features of Tablo's iOS app

EDUCATION

Cambridge University

2013 – 2016

Bachelor of Arts (Honours) in Economics – high 2.1

- Recipient of the Santander Scholarship to study web development and global protest movements at UC Berkeley in 2014
- Specialised in advanced econometrics; dissertation on how migrant policy change affected Singapore's income distribution
- Represented Cambridge at Harvard Model United Nations Conference 2014 and won the Diplomacy Award

Anglo-Chinese School (Independent)

2005 – 2010

International Baccalaureate: 43/45 (98th percentile globally), including Higher Level Math, Economics and History (7)

- Singapore National Team Sailor (2004 – 2008) and School Team Captain (2007 – 2008); national champions in 2006, 2008

SKILLS

- Languages/frameworks: Solidity, web3.py, brownie, Python, Django, JavaScript, React, Node.js, Express, SQL, MongoDB
- Cloud: Infura, AWS (ECS, EC2, Lambda, S3, DynamoDB, CloudFront), GCP, Docker, Cloudflare and Fastly Workers
- Web: HTTP, REST, APIs, Git / GitHub, MVC, Functions as a Service, software architecture, HTML, CSS