

PEH SHIN

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TECHNICAL STACK

- *Blockchain Solutioning* – Interoperable Architecture/ DeFi Protocol Analysis/ Smart Contract Design
- *Python* – Machine Learning/Data Science/Web Scraping
- *Databases* – MySQL/MongoDB

WORK EXPERIENCES

United Overseas Bank (UOB)

Blockchain Infrastructure Engineer

July 2024 – Present

- Advanced solutioning efforts for **customised token-based product offerings** by integrating **cross-network messaging protocols** in alignment with secure asset flow models.
- Designed **end-to-end bridged data and asset flows** between on/off-chain entities to facilitate segregated risk management across **Banking-as-a-Service** partnerships with 3rd-party Fintech service providers.

Treehouse Labs (Intern)

Product Manager

Mar 2022 – Aug 2022

- Engineered a 1.6x increase in DeFi protocol coverage for the Treehouse platform by **redesigning call data tracing** for multi-signature wallets and internal transactions, and initiated **Solidity debugging in Tenderly** to improve user trade flow capture.
- Enhanced accuracy of users' asset positions by >45% through **implementing transaction event logging pipelines** using **GraphQL and Bitquery's API** to cache states based on transaction input data and ABI decoding of higher-order smart contracts, such as **upgradeable EIP-1967 and EIP-1822 proxy contracts**.

Internal Tools Developer

Dec 2021 – Mar 2022

- Reduced user churn rate by 60% by **developing integration tests using Pytest** that improved bug capturing of yield farming rewards for users of 20 DeFi protocols with total TVL > \$20B.
- Saved 23% of downtime for Treehouse's MongoDB database by **developing PyMongo automated scripts for database validation** of users' liquidity pool positions, freeing up engineering resources previously spent on manual error checking.

DeFi Research Analyst

Aug 2021 – Dec 2021

- Built investor confidence for Treehouse's \$18 million seed funding by kick-starting the company's research efforts in DEX valuation models and token flows by abstracting **on-chain data from CryptoQuant and Glassnode** and **scraping news data using Selenium and BS4** to create data-driven research frameworks.
- Expanded Treehouse's Twitter follower base by 43% through visual breakdowns of Sushiswap's tokenomics, [endorsed](#) by **Sushiswap's co-founder @0xMaki** and **head of business development @Trudahamzik**.

ACADEMIC QUALIFICATIONS

Singapore Management University

Aug 2019 – Apr 2023

- Bachelors in Business Analytics (*Concentration in Blockchain Innovation*)
- Cumulative GPA: 3.61/4.00 (Magna Cum Laude)
- Dean's List Academic Year 2019/2020

Blockchain Infrastructure Coursework:

- *Blockchain Applications in Financial Services* – Prototyped a smart contract-based trade finance payment solution between suppliers and financiers using **OpenZeppelin's contract libraries** and **Ganache's testing framework**, eliminating the need to navigate financial intermediaries and cumbersome documentation.
- *Financial Innovation* – Deployed Python-based trading scripts using **Ethereum's development framework Brownie** that reduced the time for cross-asset lending/borrowing interactions between Aave pools by 25%, while incorporating loan-to-value factors from **Chainlink Oracle price feeds**.

Finance/Computational Coursework:

Financial Accounting (A+), Decision Analysis (A+), Finance (A), Computational Thinking (A-), Computing Technology for Finance (A-), Linear Algebra for Computing Applications (A-)