LI, KIN FUNG (CALVIN)

(+852) 68905323 ⋄ Email: kfliad@connect.ust.hk
LinkedIn: Calvin Li (https://www.linkedin.com/in/calvin-kin-fung-li/)

Calvin is a fast learner who adapts to new environment and picks up new skills quickly. Dedicated to both engineering and business, his robust and diverse academic background empowers him to generate new, impactful ideas and execute them.

WORK EXPERIENCE

Flurry Finance Jun 2021 - Feb 2022
Blockchain Developer

- Developed **Flurry Protocol**, a **cross-chain DeFi yield aggregator**
- Implemented **optimization of DeFi lending portfolio**, up to **2x return** of naive algorithm
- Programmed smart contracts and scripts for yield farming, staking, tokens, trading, price oracle
- Integrated with popular DeFi projects (Aave, Uniswap, Chainlink, Venus, Alpaca, Rabbit, etc.)

EDUCATION

The Hong Kong University of Science and Technology (HKUST) Sep 2019 - May 2024
Dual Degree Program: BEng(COMP & ELEC) & BBA(GBM)

- Minor in Mathematics, and in Robotics
- CGA: 3.94/4.3 *(top 3%)*

Eidgenössische Technische Hochschule (ETH) Zürich Feb 2022 - Aug 2022
Semester Exchange: Computer Science

- Grade: (pending)/6.0

PLK Centenary LSC Mem. College Sep 2013 - Jul 2019

- HKDSE: 5** in Chinese, Math, M2, Physics, Chemistry and Economics, 5* in English *(top 0.2%)*

HIGHLIGHTED TECHNICAL SKILLS

Programming Languages	Java, Haskell, C/C++, Solidity, Python, JS, TS, MATLAB
Formal Verification	Apron, Soot
Blockchain / DeFi	OpenZeppelin, Hardhat, Ethers.js, Remix
ML / Data Science	pandas, numpy, scipy, matplotlib, seaborn, sklearn, etc.
Others	Git, Docker, Maven

(full portfolio at GitHub: https://github.com/StardustLID/StardustLID)

HIGHLIGHTED COURSEWORK

Computer Science	OOP, Functional Programming, Algorithms, Formal Methods, ML, Database, Networking, Computer Architecture
Electronic Engineering	Signal Processing, Control Theory, Circuits, Embedded Systems
Finance	Mean-Variance Portfolios, Factor Models, Financial Asset Valuation
Math	Discrete Math, Linear Algebra, ODE, Probability

(course list available in transcript)

EXTRA-CURRICULAR EXPERIENCE

Robocon Subteam, HKUST Robotics Team Dec 2019 - Jun 2021
Team Leader, Senior Hardware Engineer ← Junior Hardware Engineer

- **Multiple champions** and other awards in International and Regional Robocon 2021 and 2020
- Managed robot R&D progress for 30+ mechanical, hardware and software engineers
- Prepared game plans for robotic archery (2021) and rugby (2020)
- Circuit design, routing, electronic R&D (laser ADC, regulators and converters, etc.)

UBS Zürich HQ Dec 2020 - Jan 2021
Student Analyst (Team Captain, AI Developer)

- Prototyped a ML-based **fintech startup prediction tool** with **70% accurate funding patterns**
- Data pipelining of *Crunchbase* dataset
- Models and methods: hypothesis testing, K-means, PCA, decision tree, regression

PROJECTS

Formal Verification of Java Project Spring 2022
Rigorous Software Engineering @ETH Zürich

- **Numerical** and **pointer analysis** in **polyhedra abstract domain**
- Handled arithmetic, boolean, branch and loop expressions on integers
- Apron & Soot (analysis), SLF4J & Logback (logging), JaCoCo (coverage), Maven & Docker (DevOps)

Reliable Transport Layer Spring 2022
Computer Networks @ETH Zürich

- Implemented **sliding window** over User Datagram Protocol (UDP) in C
- Reliable against packet loss, reordering, duplication and corruption
- Features: cumulative ACK, sender and receiver buffer, timer and retransmission

Digital Audio Player (DAP) Fall 2021
Introduction to Embedded Systems @HKUST

- Circuit design in Altium, programmed in C with STM32 toolchain
- DAP functionalities: MP3 and WAV support, audio codec and equalizer, FATFS file I/O
- Features: text-based UI, encoder, system clock, interrupt, button, LED

Operation H (Top-down Shooter Game, Inspired by *Twilight Wars*) Fall 2020
Honors OOP and Data Structures @HKUST

- Programmed in C++ with Qt as GUI framework
- Features: A* path search, bullet trajectory and collision, map height system, camera
- Design patterns used: singleton, flyweight, strategy