

EMAD AKHRAS

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Education 2019-2023	THE UNIVERSITY OF HONG KONG Bachelor of Arts and Sciences in Applied Artificial Intelligence (cGPA: 3.49/4.30) <ul style="list-style-type: none">Major in AI with concentration in Finance<i>Senior Project</i>: Use DNNs to analyse candidates' facial expression in a video interview setting<i>Kaggle Competition</i>: Built ML models on the MIMIC-Extract IV dataset to predict mortality and length of stay of patients<i>Deep Learning</i>: Reinforcement learning to control an agent in LunarLanderV2 – OpenAI gym<i>Machine Learning</i>: KYC app with facial ID login using OpenCV and basic iBank features	HONG KONG
Experience 2022 Jun-Sep	TPS CAPITAL (Quantitative Developer Intern) <ul style="list-style-type: none">Contributed to a single token market making strategy by building back-end interfaces for CEXs as well as DEXs on Solana and EthereumCo-developed an algorithmic currency premium mean-reversion strategy and wrote back-testsLed an algorithmic NFT market making projectBuilt a front-end to enable traders to adjust the parameters of any internal algorithmic strategy	HONG KONG
2021-22 Sep-Jan	CONVERGENCE FINANCE (Blockchain Protocol Intern) <ul style="list-style-type: none">Changed IDO offerings' whitelisting from on-chain to off-chain approval via EIP712 signaturesConducted technical analysis of the Compound protocol.	
2021 Jun-Sep	LIQUEFY LIMITED (Internship) <ul style="list-style-type: none">Developed a smart contract that uses <i>ChainLink's</i> on-chain VRF to randomly select addresses from an eligible pool for whitelisting prior to an IDO offeringImplemented a RESTful API hosted on <i>Cloudflare</i> that provides <i>CoinGecko</i> with the circulating supply of the <i>Lithium Finance</i> token from its smart contractConducted technical research on AMMs such as <i>Uniswap v2 & v3</i>, <i>Curve</i>, <i>Balancer</i>, as well as a PMM such as <i>DODO</i>Wrote a script to monitor the uptime of a subgraph node on <i>The Graph</i> and report on Slack channels	
Tech skills	EXTRACURRICULAR PROJECTS <ul style="list-style-type: none"><i>Full Stack App</i>: A minimal Reddit clone with Next.js, React, GraphQL, TypeORM, PostgreSQLImplemented a basic multithreaded server in Rust using concepts of concurrency<i>Web Scrapping and automation</i>: Scrap and process information from various websites of interest and automate day-to-day tasks with a single bot that can be commanded via Telegram<i>Console Game</i>: Implementation of the game <i>Battleship</i> in C++ CERTIFICATES <ul style="list-style-type: none"><i>AlgoExpert</i>: completed 100 data structures and algorithms questions on the platform<i>Algo-trading</i>: completed <i>Algorithmic Trading & Quantitative Analysis Using Python</i> on Udemy<i>Hackerrank</i>: obtained the 6th badge solving 175 problems on the platform PROGRAMMING LANGUAGES <ul style="list-style-type: none">Typescript, Python, C++, Rust (Intermediate), Solidity FRAMEWORKS, DATABASES & OTHERS <ul style="list-style-type: none">React, Next.js, Web scrapping, Linux, Git, Web3, SQL, PostgreSQL, MongoDB, APIs	
Miscellaneous	ACHIEVEMENTS & INTERESTS <ul style="list-style-type: none">Recipient of the UWC-HKU Diversity Scholarship over the course of university educationRecipient of the Horizon Foundation Scholarship over the course of the IB programChess (national champion in 2010), football, philosophy, NFTs, competitive programming	