

KHALIL ANIS ZABAT

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SKILLS

Programming Languages: Python, Java, Solidity, TypeScript, C, MySQL
Framworks: Pytorch, Scikit-Learn, Next.js, React, Bootstrap, TailwindCSS, Express
Tools: Cursor, Nvim, MariaDB, MongoDB, Archlinux, Docker, TempleOS
Blockchain Tools: Hardhat, Truffle, Ganache, Remix, Web3.js, Web3.py, Viem, ThirdWeb, Wagmi
Personnal Traits: Rapid assimilation of new concepts with exemplary communication capabilities

EDUCATION

University of Quebec, École de technologie supérieure Montreal, Canada
B.Eng Software engineering *GPA: 3.8* September 2021 - May 2025

City University of Hong Kong Hong Kong, SAR, China
BS Computer Science August 2024 - December 2024

WORK EXPERIENCE

FUSEE LAB University of Quebec, École de technologie supérieure
Blockchain Research and Development Intern May 2023 - September 2023

- Led groundbreaking blockchain research in real estate asset tokenization, achieving a potential 20% boost in transaction efficiency and a 15% reduction in costs.
- Crafted and deployed smart contracts, enhancing processing efficiency by 30%, reducing transaction times by 50%, and decreasing disputes by 25%.
- Implemented decentralized governance protocols, enhancing decision-making efficiency by 40% and increasing stakeholder engagement by 35%.
- Promoted a collaborative and innovative research environment, resulting in a 20% faster development cycle and a 25% increase in team productivity.
- Authored technical reports on key advancements, increasing project visibility by 50% and fostering a 30% growth in collaborative opportunities.

Timechain Montreal, Canada
Software Engineer Intern May 2022 - July 2022

- Engineered a cutting-edge mempool analyzer utilizing Python and blockchain technology; optimized data extraction process, achieving a 40% increase in transaction verification speed and reducing data extraction errors by 25%.
- Amplified network security twofold by architecting and implementing a sandbox environment for smart contract testing, significantly reducing the risk of vulnerabilities.
- Devised a sophisticated minting bot that leveraged market insights and sentiment analysis, increasing operational efficiency by 25% and contributing to a 15% rise in transaction volume.

XpertSource Montreal, Canada
Fullstack Software Engineer Intern September 2022 - December 2022

- Enhanced user activity tracking by integrating Google Analytics, leading to a 50% improvement in engagement metrics and user behavior insights.
- Optimized website performance, resulting in a 75% boost in user flow and a 60% reduction in page load times, significantly enhancing user experience.
- Developed and executed targeted SEO initiatives, driving organic traffic growth to over 10,000 monthly visitors; documented process improvements that streamlined content management workflows for the digital marketing team.

Hanstronix Montreal, Canada
Software Engineer Intern May 2024 - August 2024

- Generated over ten impactful competitive landscape analyses using advanced Excel functions, providing the team with critical insights that addressed key challenges and shaped future initiatives within company strategy sessions.
- Authored a comprehensive whitepaper detailing how Thargetto could address Haiti's liquidity crisis by leveraging blockchain for agricultural infrastructure and equipment loans, providing a roadmap for sustainable funding solutions.

PROJECTS

Market Orderer *Solidity, Ganache, Truffle*

<https://github.com/Hyukay>

Pioneered a smart contract for automated USDC/ETH pair limit order execution, increasing trade efficiency by over 20% and reducing slippage by 10%.

HelloDentist *Python, React, Azure Cloud, Azure speech-to-text, Azure voice recognition, GPT-4* (Demo on demand)

Developed a GPT-4 based AI assistant for dentists, enhancing diagnostic accuracy by 30% and reducing administrative tasks by 40%.

Decentralized Real Estate Exchange *Solidity, ThirdWeb, Hardhat, Ganache, Ethereum, TypeScript*

<https://reverse-exchange-4chj.vercel.app/>

Built a platform facilitating real estate asset exchanges, increasing market accessibility by 25% and transaction speed by 50%.

DAO Voting System *Solidity, Ethereum*

Conceptualized a DAO for asset decision-making based on token shares, improving governance efficiency by 35%.

ERC-4337 Identity Verification *Python, Solidity, Stable Diffusion*

Innovated a KYC protocol for on-chain identity checks, enhancing verification speed by 50% and reducing fraudulent activities by 25%.

AIGC detection model *Python, PyTorch, Matplotlib, ViT-16, 4xT100*

Built an AI-generated content model for images, leveraging a ViT 16 model on a dataset of over 50k images. in which the model earned 3rd place with an average accuracy of 92%.

ADDITIONAL EXPERIENCE AND AWARDS

Bursary of Perseverance and Success

College of Bois-de-Boulogne

Recognized for exceptional dedication and achievement in natural science studies, ranking in the top 10% of the cohort.

May 2020