Edmond Shuang Song

Independent Developer for Algorithms & Contracts.
PY/RS/CPP/SOL.

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⊙ https://github.com/ssghost in https://linkedin.com/in/shuangsongprofile

Profile

Experienced Job Types:

- 6 years Machine Learning Engineer
- 3 years Smart Contract Engineer
- 3 years Rust EVM Engineer

Expected Job Types:

- Machine Learning Engineer, Smart Contract Engineer, Smart Contract Auditor
- HongKong On-site & Remote
- Europe Remote & VISA supported On-site

Professional Experience

08/2023 – present Hong Kong	**Defi Freelance Consultant** *Freelance* Become a self-supervised results-oriented freelance consultant for startups on several global platforms. Proven ability to design and implement secure and efficient contracts, with a focus on applying MEV technology to optimize DeFi protocols. Successfully delivered 6 projects, including 3 high performanced HFT strategies and 3 secure and efficient Solana chain based lending pool protocols.
09/2020 – 07/2023 Remote, Japan	**Web3 Smart Contract Engineer** *SPARTICLE INC. JAPAN* Developed and deployed performant Solana smart contracts using Rust cooperating a 30 members all-remote team, achieving around 3500 TPS and handling 3000 concurrent users. Proficient in the Solana toolchain, including the Solana CLI, Anchor framework for streamlined development, and Solana Program Library (SPL) for token management and other common functionalities. Experienced in optimizing contract execution for minimal gas fees and secure on-chain interactions.
08/2018 – 09/2020 Remote, Japan	**Quantitative Financial Engineer** *INVEST INC. JAPAN* Developed quantitative trading models using Python and PyTorch with a small group of experts, achieving a Sharpe ratio of 3.3 and an annualized return of around 26%. Implemented advanced time series analysis, machine learning algorithms (including deep neural networks), and backtesting frameworks. Generated daily CTA (Commodity Trading Advisor) reports, providing actionable insights for portfolio management and risk assessment.

02/2016 – 08/2018
Shanghai, China

Computer Vision Engineer
SUNNATECH SHANGHAI CO, LTD.
Built, deployed, tested a Tensorflow based medical Images classification system with a 20 members team and applied it on the primitive screening of 7 diseases in 4 local clinic radiology departments, achieving an over-all F1 score of 0.78 of all recorded cases.

Projects

01/2022 – 05/2022

MY RUST SIDE PROJECT
https://github.com/ssghost/My_Resume/My_Rust_Sideproj.md
5 versatile pure Rust based applications written all by myself including Defi app, Quant trading indicator, Backend, Hardware driver, and Terminal interfaces.

01/2021 – 02/2021

MY BLOCKCHAIN TECHSTACK
https://github.com/ssghost/My_Resume/blob/main/My_BlockChain_TechStack.md
10 practical blockchain projects created all by myself, including: Basic Contracts, Distributions of ERC20 Token, ERC721 NFT, ERC 1202 DAO, MEV, Querying of NFT, zkSync Enhancements, and a complete Rust backend supported Defi App.

01/2018 – 02/2018

MY DEEPLEARNING TECHSTACK
https://github.com/ssghost/My_Resume/blob/main/My_DeepLearning_TechStack.md
10 practical deep-learning projects created all by myself, including: CNN, RNN, RL, NLP, GAN, Transformers, Computer Vision, Financial Decisions, Stable Diffusions.

Education

08/2011 – 08/2014
Shanghai, China

Master of Medicine
Shanghai Marine Medical University ⧉
Research Subject:
Cell Plasticity and RNA Interferences
Author and Co-author of 3 International SCI Papers during studying period.

08/2005 – 08/2010
Chengdu, China

Bachelor of Medicine
Southwest Medical University ⧉
Research Subject:
Diagnostic Radiology

Certificates

Certified Blockchain Solidity Developer ⧉
Advanced

Coursera Machine Learning Specializations ⧉

Certified Kubernetes Application Developer ⧉

Coursera Tensorflow in Practice Specializations ⧉

Coursera Deep Learning Specializations ⧉

Chainlink Oracles Foundation ⧉
Master Class

Skills

Python	C++
Javascript	Typescript
Rust	Solidity
Julia	SQL
Translation	Statistics
Graphic Design	Scientific Writing

Languages

English	**Chinese**	**Japanese**
Native/Bilingual	Native/Bilingual	Fluent