

Shuang Song

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

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🌐 <https://github.com/ssghost> 🔗 <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

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/blob/main/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 DEEPLARNING 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 <i>Advanced</i>	Certified Kubernetes Application Developer	Coursera Deep Learning Specializations
Coursera Machine Learning Specializations	Coursera Tensorflow in Practice Specializations	Chainlink Oracles Foundation <i>Master Class</i>

Skills

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