

# Vladislav Miller

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## Professional Summary

Self-taught IT professional with extensive experience in Python programming and system architecture. Proven track record of building high-performance systems from the ground up, with demonstrated success in both technical delivery and business impact. Skilled in developing scalable solutions processing real-time data with sub-second latency. Experience spans financial markets, blockchain technology, and complex data analysis. Demonstrates strong technical leadership abilities and cross-functional collaboration skills. Fluent in English.

## Career Objective

Looking for opportunities to lead small to medium-sized teams in developing cutting-edge software solutions, with a focus on scalable architecture and high-performance systems. Seeking a position that allows for gradual growth into larger leadership responsibilities while leveraging my experience in building complex systems from inception to production.

## Technical Skills

- **Programming Languages:** Python (expert), JavaScript, C#
- **Python Ecosystem:** Flask, NumPy, Pandas, Plotly, Pytest, Unittest, Nose
- **Databases:** Redis, PostgreSQL
- **Cloud Platforms:** AWS, Google Cloud
- **Version Control:** Git, GitHub, Mercurial
- **API Development:** RESTful API design
- **Operating Systems:** Linux
- **Concepts:** Microservice architecture, Multithreading, Multiprocessing, Test-driven development, Information security, Cryptography
- **Financial Markets:** Quantitative analysis, Risk management, Trading system development, Technical analysis, Blockchain/cryptocurrency

## Professional Experience

### Lead Developer & System Architect | High-Performance Data Analysis System

**2018 – 2024**

Led the design and implementation of a complex market data analysis system from the ground up:

- Architected a scalable microservice-based solution achieving sub-second latency in multi-source data processing
- Implemented multithreaded and multiprocess components consistently outperforming market data update speeds
- Developed data collection and processing pipelines using Python, NumPy, and Pandas
- Engineered high-precision pattern detection algorithms for market inefficiencies
- Maintained extensive code documentation and comprehensive unit test coverage using Pytest
- Managed and coordinated work with external contractors, demonstrating strong stakeholder management skills

### NFT Project Developer

**2021**

Led development for multiple successful NFT projects including Cunning Foxes, 24px, and weape24:

- Provided technical requirements and guidance to graphic artists for NFT image generation
- Supported infrastructure setup and maintenance for NFT platforms
- Generated \$1.45M in initial mint sales
- Achieved over 5,100 ETH in total trading volume on OpenSea

### Trading System Developer | Quantitative Analysis Project

**Early 2020**

Developed a stock trading system leveraging quantitative analysis for market insights:

- Implemented a fine-tuned BERT model for sentiment analysis of market trends and news
- Integrated real-time data feeds and developed trading signals based on sentiment scores and technical indicators
- Optimized the system for low-latency decision making in fast-moving markets, applying advanced statistical techniques

## **Technical Analyst | NinjaTrader Platform**

**2024 – Present**

Developing advanced technical analysis indicators focusing on market regime detection:

- Created real-time indicators processing tick-level volume and price action data
- Implemented multi-timeframe analysis support for comprehensive market view
- Developed algorithms to distinguish between high-risk consolidation and low-risk trending market conditions
- Optimized performance for real-time data processing and analysis
- Collaborated with traders to refine and validate indicator effectiveness, showcasing cross-functional collaboration skills

## **Open Source Contributions & Personal Projects**

### **LuxCoreRender (formerly LuxRender) Project Contributor**

**2009 – 2010**

- Extended and maintained the LuxBlend exporter for Blender, enhancing 3D rendering capabilities
- Collaborated with an international team of developers using Git for version control

### **Lead Coordinator & Contributor | "OpenPGP in Russia" Information Project**

**2003 – 2015**

- Led coordination efforts for an information security project focused on PGP/OpenPGP implementation in Russia
- Contributed technical content and guidance to enhance understanding of cryptographic principles

### **Personal GitHub Projects**

- Maintain a repository of personal projects and experiments: <https://github.com/sattva1>

## **Additional Skills**

- Written Communication: Strong ability to create clear, comprehensive documentation and reports
- Technical Writing: Skilled at explaining complex technical concepts in understandable terms

- **Problem-solving:** Analytical approach to tackling complex technical challenges
- **Adaptability:** Quick learner, able to adapt to new technologies and changing project requirements
- **Self-motivation:** Proven track record of self-directed learning and independent project completion
- **Attention to Detail:** Meticulous approach to coding and system design, as evidenced by extensive unit test coverage
- **Project Coordination:** Experience in organizing tasks and collaborating with team members and external contractors
- **Thoughtful Communicator:** Preference for carefully considered responses in verbal interactions
- **Prompt Engineering:** Proficient in working with Large Language Models (LLMs) like ChatGPT and Claude to boost professional productivity
- **Code Review:** Experienced in conducting thorough code reviews and providing constructive feedback
- **Mentoring:** Skilled in guiding and developing junior developers' technical abilities
- **Cross-functional Collaboration:** Adept at working effectively with diverse teams including designers, traders, and business stakeholders
- **Stakeholder Management:** Experienced in managing expectations and communications with project stakeholders
- **Flexibility:** Adaptable to project needs, including non-standard working hours when required

## References

Professional references from clients and project stakeholders are available upon request.

## Education

Self-taught IT Professional | Continuous learning through online resources, documentation, and practical application

High School Diploma