

Karmen Kardum

Split, Croatia

Phone: +385-91-972-9847

Email: karmen.kardum@gmail.com

LinkedIn: [linkedin.com/in/karmen-kardum](https://www.linkedin.com/in/karmen-kardum)

SUMMARY

Software Engineer with 10+ years of experience spanning algorithmic trading systems (4 years traditional finance), enterprise SaaS development (8 years), and DeFi/blockchain technologies (2+ years active cryptocurrency trading). Proven track record building trading infrastructure with expertise in Python, data architecture, and distributed systems. Currently focused on cryptocurrency trading infrastructure, DeFi protocols, and blockchain technology.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL

Blockchain & DeFi: Smart contracts, DeFi protocols, Cryptocurrency trading bots, On-chain analysis, Crypto exchanges, Web3

Trading Systems: Algorithmic trading, Market data pipelines, Order execution, Risk management, Automated trading strategies, Hummingbot framework

Databases: PostgreSQL, MySQL, Database design, Data modeling

Infrastructure & DevOps: Docker, Linux administration, System architecture, Distributed systems

Cryptocurrency: Bitcoin, Ethereum, Cryptocurrency mining, Futures trading, Perpetuals trading, MEXC exchange

Data Engineering: Real-time data processing, Market data systems, Data pipelines

Product Development: UX design, Balsamiq wireframing, Product specifications, Technical documentation

Version Control: Git, GitHub, GitLab

Collaboration Tools: Jira, Basecamp

WORK EXPERIENCE

Cryptocurrency Trading & DeFi Consultant

Self-Employed, Remote | 2022 - Present

Develop algorithmic trading bots and cryptocurrency trading infrastructure for personal trading operations.

- Developed algorithmic trading bots for cryptocurrency futures and perpetuals on MEXC exchange
- Built automated trading strategies using Hummingbot framework for cryptocurrency markets
- Operated personal cryptocurrency mining infrastructure as part of Predictor trading operations
- Monitored trading systems 24/7 with team ensuring execution reliability and system uptime
- Co-authored whitepaper content for power perpetuals DeFi protocol (project discontinued in initial phase)

- Conducted research and analysis on DeFi protocol risks, vulnerabilities, and trading strategies
- Implemented risk management systems for cryptocurrency trading operations
- Analyzed on-chain data and cryptocurrency market trends for trading decisions

Traditional Finance Trading Consultant

Self-Employed, Remote | 2016 - 2020

Built algorithmic trading infrastructure for traditional financial markets.

- Developed algorithmic trading infrastructure for traditional financial markets
- Built market data processing pipelines and order execution systems
- Implemented risk management and monitoring systems for trading operations
- Created data analysis tools for trading strategy backtesting and optimization
- Developed real-time market data processing systems
- Built automated trading strategies and signal generation systems

Product Owner

Planet IRM, Remote | Jul 2015 - Jun 2023

Product Owner for Planet IRM NexGen, enterprise cloud-based infrastructure management platform serving Fortune 500 companies and U.S. Department of Defense agencies.

Product Development & Technical Leadership:

- Designed 125+ UI/UX mockups in Balsamiq defining feature specifications for development teams
- Worked with Object Model data architecture framework describing object structure, relations, and properties
- Collaborated with 10-15 engineers across multiple time zones on system architecture and technical implementation
- Attended almost all engineering and architecture meetings to understand technical implementation deeply
- Participated in database design conversations and data modeling discussions with engineering teams
- Contributed to technical architecture discussions for cloud platform migration

Technical Documentation & Specifications:

- Authored 1,800+ pages of comprehensive technical documentation across 28 product versions
- Created detailed technical specifications and design documents used by development teams for feature implementation
- Documented complex system architecture, REST API integrations, and deployment workflows
- Created detailed release notes (30+ pages each) documenting features, bug fixes, and system changes
- Researched and proposed API documentation approach using Swagger/OpenAPI specification

Integration & Quality Assurance:

- Created mockups and documented integration features with third-party enterprise systems (Fluke Networks LinkWare Live, BMC Helix ITSM, ServiceNow)
- Attended integration design meetings with engineering teams and external partners
- Conducted acceptance testing and quality validation for new features
- Established version control processes for documentation using Dr.Explain, GitBook, and Wikipages

Stakeholder Collaboration:

- Worked closely with CTO and stakeholders on product strategy and feature prioritization
- Served as primary product contact for enterprise clients and government agencies
- Improved user self-service capabilities through comprehensive documentation

Software Project Manager

i3Annotate, Remote | Mar 2017 - Dec 2018

Led Agile development of multi-platform touchscreen annotation application for business and education from prototype to production release.

- Led 6-person development team (contractors and direct reports) through full project lifecycle
- Defined project scope, milestones, and resource allocation
- Established testing workflows and validation processes across iOS, Android, Windows, and Mac platforms
- Managed Agile ceremonies including sprint planning, daily standups, and retrospectives
- Delivered project on-time and within budget

Software Developer

Neos, Remote | Jul 2011 - Jul 2015

Developed algorithmic trading systems, SCADA infrastructure, and ERP solutions.

- Built Python-based algorithmic trading infrastructure and market data processing systems for financial markets
- Developed real-time data pipelines for market data ingestion, processing, and analysis
- Implemented trading signals and order execution systems
- Developed SCADA system components for public lighting infrastructure management
- Created data pipelines for real-time market data processing
- Implemented SQL databases and optimized query performance for trading systems
- Developed ERP system modules for business process automation

EDUCATION

Master of Computer Science - Software Engineering
University of Split, FESB | 2009 - 2011

Relevant Coursework: Algorithms, Data Structures, Database Systems, Distributed Systems, Computer Networks, Software Engineering

BLOCKCHAIN & TRADING PROJECTS

Cryptocurrency Trading Infrastructure (2022 - Present):

- Algorithmic trading bots for futures and perpetuals on MEXC cryptocurrency exchange
- Automated trading strategies using Hummingbot framework
- Personal cryptocurrency mining operations integrated with trading infrastructure
- 24/7 system monitoring and maintenance with team

Power Perpetuals DeFi Protocol (2022 - 2023):

- Co-authored whitepaper content for power perpetuals trading protocol
- Conducted research on DeFi protocol risks, vulnerabilities, and mitigation strategies
- Project discontinued in initial development phase

Traditional Finance Trading Systems (2016 - 2020):

- Algorithmic trading infrastructure for financial markets
- Market data processing and order execution systems
- Risk management and monitoring tools for trading operations

CERTIFICATIONS

Remote Work: 14 years of remote work experience with distributed teams across multiple time zones

Languages: English (Fluent - Business/Technical), Croatian (Native)

Availability: Immediate start available

Location: Europe timezone (Croatia UTC+1) - Easy overlap with EU/UK business hours