MATEUSZ CZARNECKI

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📍 WARSAW, POLAND

ABOUT ME

A 22 years old programming passionate with foundations in distributed systems, AI and software engineering. Quick to adapt, fast learner with strong logical thinking capabilities and a proactive approach. Eager to contribute to cutting-edge projects at top tech companies in diverse, international envirnonments.

EXPERIENCE

MATCH-TRADE TECHNOLOGIES
SOFTWARE ENGINEER

WARSAW, POLAND
FEBRUARY 2024 - NOW (7 MONTHS)

- Developed distributed High-Frequency Trading software for cryptocurrency markets, utilizing gRPC, WebSocket, and HTTP protocols for communication.
- Integrated blockchain-based cryptocurrency exchanges (DeFi) with existing market-making software, creating and optimizing quoting and trading systems for AMM-based exchanges on Ethereum (L1/L2), Solana, TON, and TRON.
- Interacted with and maintaining blockchain nodes, developing CEX-DEX and on-chain arbitrage solutions, and creating Solidity smart contracts.
- Managed PostgreSQL database integration, creating system metrics using InfluxDB.
- Integrated new applications into AWS cloud infrastructure, working with services such as AWS Secrets Manager, Lambda to ensure secure and scalable deployments.

TSMC
AI APPLICATION & PLATFORM DEPARTMENT INTERN

HSINCHU, TAIWAN
JUNE - AUGUST 2023 (3 MONTHS)

- Developed an AI system to enhance HR feedback management, streamlining data analysis and improving employee sentiment tracking.
- Modularized and optimized AI models for production, utilizing open-source models to ensure scalability and efficient deployment.
- Researched and implemented training workflows for image-captioning models like MiniGPT-4, integrating them into an internal chatbot for improved automation.
- Winner of the TSMC Intern Hackathon

NOKIA BELL LABS
SOFTWARE DEVELOPMENT STUDENT ITERN

HELSINKI, FINLAND
OCTOBER - DECEMBER 2022 (3 MONTHS)

- Created solutions for secure transfer and management of medical data using Ethereum Blockchain.
- Implementation based on Dapp including backend created with Python Flask and Solidity Smart Contracts to interact with Ethereum Blockchain and store data.

CODING GIANTS
PROGRAMMING TEACHER

WARSAW, POLAND
NOVEMBER 2022 - JUNE 2023 (7 MONTHS)

- Taught Python programming to students aged 10-18.
- Instructed students in algorithms and computational thinking.

EDUCATION

WARSAW UNIVERSITY OF TECHNOLOGY
Bachelor of Computer Science

2021 - 2025 (EXPECTED)

GPA: 4.7 / 5, Academic achievements scholarship holder

Smart City │ Team Leader within the student association

METROPOLIA UNIVERSITY OF APPLIED SCIENCES

2022 - 2023

HELSINKI, FINLAND

Computer Science, International Exchange Programme

SKILLS

Problem solving, OOP, Java, Spring, JUnit, Kotlin, Python, Javascript, Typescript, Restful APIs, Blockchain: Ethereum, Solana, Layer 2, Android, Android Studio, Automated integration tests, Web development, NodeJS, SQL, MongoDB, Azure, Python data analysis tools, Machine Learning methods, Deep Learning, NLP, Image Processing, GIT and Github fluency, Algorithms, International team working, C1 English language profficiency, Fast learning, Teamwork