IGNAZIO BOVO

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SKILLS

- **Rust** – Building high-performance systems with Diesel, Tokio, Reqwest, and Polkadot-SDK (Substrate)
- **TypeScript** – Developing scalable APIs with Node.js, Express, and ORMs
- **PostgreSQL** – Designing schemas, optimizing queries, and managing transactions

- **AWS** – Designing backend end services for large scale AWS interaction
- **Docker Devops** – Deploying and managing cloud infrastructure for backend and blockchain api
- **Networking** – Designing and implementing distributed system with secure network communication

EXPERIENCE

Shadowy Creators • Senior Rust Eng   *(03/2024) - Present*

Joined as a **Rust** consultant to develop a high-throughput indexing application for blockchain Data (EVM). Implemented data indexing solution for major blockchain DeFi protocol with focus on performance. Provided technical training to junior developers in the **Rust** programming language. Worked closely with the broader backend stack, debugging and integrating crates using **Diesel**, **Tokio**, and **Reqwest**, ensuring seamless data processing and efficient resource utilization.

Datura.ai • Blockchain Engineer   *(08/2024) - (02/2025)*

Designed and implemented MVP for a secure multi-relayer bridge between Bittensor and Ethereum Mainnet in a fast-paced, small-team environment. Developed the **TypeScript** and **PostgreSQL** backend for blockchain data retrieval and authored security-focused Solidity smart contracts. Co-authored the **Golang**-based relayer, integrating advanced **cryptographic techniques** such as Binance **TSS-Lib** and **TLS handshakes** to enable secure communication between nodes and transaction forwarding between blockchains.

Jsgenesis AS • Blockchain Backend Engineer   *(05/2021) - (08/2024)*

Joined as a **Rust** developer to bring core protocol functionalities to **production**, deploying critical **Substrate**-based components with a strong focus on **security, proper error handling, resource management,** rigorous testing, and **asynchronous execution**. Contributed to the development of key protocol logic and on-chain systems, ensuring efficient and reliable blockchain operations. Co-authored and maintained a high-throughput data indexing backend in **TypeScript** and **PostgreSQL**, designed for efficient processing and storage of blockchain events. The system handled up to 400,000 daily write requests (in **production**) while remaining accessible via both **REST** and **GraphQL APIs**. Additionally, I have improved their existing distributed CDN for multimedia storage and distribution, ensuring scalability and efficient content delivery. Implemented **AWS** integration for long term cold storage in order sidestep node storage capacity limit..

Electrade Spa, Milan • Junior Backend Developer   *(08/2020) - (01/2021)*

Developed a **MySQL**-based backend to store and process oil tank data scraped from emails using Python, streamlining data ingestion and retrieval. Designed and implemented automated intra-day trading strategies for the German electricity market, leveraging **Python** and **MySQL**. The automation significantly improved traders' efficiency and daily workflow..

EDUCATION

Master's in Quantitative Finance • Polytechnic Institute of Milan, Milan, Italy

Bachelor's in Computer Science • University of Padua, Padua, Italy