

Nicolas Marshall

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Skills

Programming

Rust | Go | React / Web | Javascript / Typescript | Cryptography | Blockchain

Blockchains

Ethereum | Solana | Polkadot/Substrate | NEAR | Cardano | Wormhole | Sui

Databases / Data

Postgres | SQLite | Kafka/Queues | Clickhouse | DuckDB | Tracing | Events

Systems

Linux shell | Git | Docker | Testing | Kubernetes | Distributed systems | CI | Nix | AI Agents

Education

Ecole Centrale de Lyon
Master's degree in engineering

Personal projects

nmrshll/kademlia-dht-rs
Rust implementation of a Kademlia DHT

nmrshll/auth-rs
Authentication / authorization server in Rust + hyper

gphotosuploader/gphotos-uploader-cli
CLI Google photos automatic uploader in Go

more on github.com/nmrshll

Work experience

Now

Contractor — Blockchain L1 & Back-end · Remote

IOTA
Blockchain L1 / infra: migration to Sui fork, split indexer out
Semi-automated porting new changes from Sui
Observability, reliability (CI revamp), operator docs
Rust | IOTA | Sui | RocksDB | Prometheus | Grafana | Tracing

Taostats.io
Took over & extended Bittensor indexer API
DB: query performance, migrations, scaling (sharding)
Rust | Postgres | Citus | Clickhouse | Bittensor | Axum

Jul'24

Unbox — Back-end APIs & blockchain · Remote

Programmable money for NGO/government projects:
• OAuth2 server with web3 keys as identity
• APIs to expose Cardano validator features to HTTP clients
• Data ingestion from validators
• Observability platform (tracing, metrics) & reliability
Rust | Postgres | Blockchain | Cardano | Nix | OpenTelemetry

Jun'22

Pacio — Blockchain internals + Solana DeFi apps · Remote

Aldrin Labs
• DeFi: AMM, Lending & Staking programs (revamped for performance)
• Cross-chain leveraged yield farming (farm Terra from Solana)
• NFTs on Solana
Rust | Blockchain | Solana | Anchor | Cosmos SDK | Typescript | Wormhole

Dock
• Blockchain node with Parity Substrate, EVM implementation
• Oracle: transactions priced in USD (with Chainlink)
• Web2 APIs for easy interaction with the Dock chain
Rust | Blockchain | Substrate | Postgres | Typescript

Pacio
• Blockchain node (internals) & cryptocurrency for micropayments
• Back-end / blockchain APIs for smartlike.org
• Cross-platform Rust core for browser extension, mobile app
Rust | Blockchain | Postgres | Typescript

Apr'19

OVH Cloud — Back-end

New contracts API + gradual data migration to the new version
Go | Postgres | Docker | CI | k8s

Jan'19

Teamwork.com — Back-end · Remote

Refactored integration framework, added integrations. Built an API client in Go.
Go | MySQL | RabbitMQ | Docker

Apr'18

Contractor — Back-end & Front-end · Remote

Websites, web UIs, API services, ads & marketing tools, CRMs. For Voyage-langue.com, Lowtaux.fr, Immotchat, Wifx.net
Go | PHP | MySQL | React | Redux | GraphQL | Networking

Jan'17

Typeform — Back-end

• Split a monolith into microservices + move to event-driven architecture
• API proxy providing auth, tracing, rate-limiting to other Typeform services
Go | PHP | MySQL | Kafka | Docker | CI | Statsd

more on linkedin.com/in/marshallnicolas