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Andrew Plaza

Staff Systems Engineer

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SKILLS

Tools and Languages Rust, Nix/NixOS, K3S, CI/CD, C, SQL, Linux, Terraform, Git
Communication English, Polish

TECHNICAL EXPERIENCE

Senior Software Engineer / Rust - Systems & Runtime Infrastructure

OCT 2023 — SEPT 2026

XMTP Labs

Remote (Philadelphia, PA)

- Core maintainer and architect of [libxmtmp](#) e2e group chat using [MLS](#).
- Implemented [libxmtmp](#) network client to communicate with distributed replicated nodes
- Created internal tools for testing: [xnet](#), [xdbg](#).
- Performance improvements to enable thousands of live [libxmtmp](#) clients per server host.
- Led the [WebAssembly](#) implementation of [libxmtmp](#) creating [sqlite-web-rs](#).
- Owned CI/CD and the Nix build platform for reproducible cross-compilation to iOS, Android NDK, WebAssembly, and musl. Automated nightly releases through 8 downstream SDKs.
- Built an OpenTelemetry observability stack for [libxmtmp](#) based on [tracing crate](#).
- iOS cross-compilation upstream in [nixpkgs](#).

Rust Blockchain Developer / Efinity

FEB 2022 — OCT 2023

Enjin

Remote (Philadelphia, PA)

- Developed substrate implementations for Fungible and Non-Fungible tokens and currencies in Efinity.
- Design and implementation of XCM (Cross-Chain Messaging) for Efinity enabling interoperability with 30 other parachains.
- Authored documentation for 30+ indie and AAA gaming partners for the features in Efinity.

Rust Software Developer / Tools - Substrate - Ethereum

NOV 2018 — MAR 2022

Parity Technologies

Remote (Berlin, DE / Philadelphia, PA)

- fully owned [Substrate Archive](#), a generic indexing tool built with Rust and PostgreSQL compatible with over 100 substrate blockchains.
- Created [Desub](#), a tool to decode generic bytes from a substrate transaction and correlate chain-specific types to procure human-readable transaction information.
- Presented video content educating 100+ viewers on Substrate Archive and related tooling.
- Created [dot-jaeger](#) to collect thousands of metrics per second enabling observability for parachain teams.
- Facilitated the release and review of over 5 tools such as [txwrapper](#), [jsonrpsee](#), [subxt](#), [telemetry](#).
- Implemented and drafted features in the main Substrate codebase, such as [Wasm Local-Blob Override](#), a precursor to the feature that helped core developers solve the bug which caused [Polkadot nodes/network to temporarily fall offline](#).

PROJECTS

jupiter — Bare-Metal NixOS Fleet

github.com/insipx/jupiter

- Homelab rack (Raspberry Pi 5s + x86 nodes) in one Nix flake. k3s, custom ARM kernels, ZFS, fleet-wide deploys, and macOS remote Nix builders.

PRESENTATIONS

wen group chat web

2024

XMTP

youtube.com

Index your chain into a Postgres SQL database

2021

Substrate Seminar, Parity Technologies

youtube.com

EDUCATION

Bachelor of Science in Computer Science, University of Scranton

MAY 2019

ACTIVITIES

Odyssey Momentum Hackathon - Won Conflict Prevention as Team Theriak, a group of 5 members

2020

Reached Platinum Rank in Valorant

2020

Founder ScrantonHacks

2016 – 2018