

Aseme Kifen

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PROFILE

As a Software Engineer, my expertise lies in the development of scalable and secure backend systems. I excel in fostering team collaboration and thrive in fast-paced, agile environments, ensuring both high-quality product development and efficient project execution.

PROFESSIONAL EXPERIENCE

Nalyze, *Software Engineer (Part-time, remote)*

Sep 2023 – present | Montreal, Canada

- Revamped the development setup, significantly enhancing both development and testing speeds. This overhaul led to more efficient workflows and notably increased team productivity.
- Actively contributing to the development and enhancement of core backend services, utilizing Python.
- Optimised solidity smart contracts for Shamir's Secret verification using Feldman's scheme, cutting gas usage by 20% and saving Arbitrum blockchain users on costs.

dcSpark, *Software Engineer (remote)*

Apr 2022 – Jul 2023 | Texas, US

- Collaborated in a team to develop the Milkomeda Validator Bridge using Rust, facilitating the secure and efficient movement of multimillion-dollar crypto assets between the Cardano and Milkomeda blockchains, significantly enhancing transaction reliability and performance.
- Led the development of various off-chain blockchain monitoring tools using Rust, and also designed and implemented REST APIs for improved data handling and system integration.
- Created and consistently updated detailed documentation for various projects, ensuring technical information was clear and accessible to team members and stakeholders.

Protofire, *Software Engineer (remote)*

Nov 2021 – Apr 2022 | California, US

- Spearheaded the migration of a key application from TypeScript to Rust, leveraging the tokio framework to develop a high-performance, asynchronous system that significantly boosted efficiency and runtime speed.
- Collaborated with UI/UX designers and front-end developers to design an intuitive, user-friendly interface for the lending platform, leading to increased user engagement and positive feedback during pre-launch testing.
- Conducted interviews and evaluated technical assessments for blockchain developer candidates, ensuring alignment with company standards and project requirements.

Helicarrier, *Software Engineer (remote)*

Jul 2020 – Oct 2021 | Lagos, Nigeria

- Led the design and development of a rust-based wallet service, integrating key technologies such as gRPC, GraphQL, PostgreSQL, Redis, and AWS.
- Scaled the wallet service to accommodate a growing user base and request volume, and achieved seamless real-time communication by integrating with the Ruby on Rails based core exchange using Google Pub/Sub.
- Facilitated the processing of over \$130 million in cryptocurrency transaction volume through the developed wallet service, ensuring stringent accuracy and security in large-scale asset transfers.

- Added and improved tests in a Rust-based service, resulting in a 30% increase in test coverage, which significantly improved code reliability and overall software quality.
- Developed tools and strategies in Rust for risk management in cryptocurrency trading, enhancing trader safety and decision-making.
- Provided mentorship to software engineering interns, focusing on code development, project management, and industry best practices, enhancing their technical skills and professional growth.
- Contributed significantly to a team in the swift development of a peer-to-peer cryptocurrency and payment service using TypeScript, overcoming regulatory challenges to enable secure transactions..
- Collaboratively implemented Python scripts for data migration in a PostgreSQL database, focusing on data cleansing and consolidation. This initiative significantly improved data accuracy and integrity across large datasets.

Skycoin, *Software Engineer Intern (remote)*

Apr 2020 – Jul 2020 | Shanghai, China

- Refined server-side logic and session management for Skycoin's distributed messaging system, utilizing Golang to enhance service reliability and efficiently manage high-capacity workloads.
- Developed and implemented Golang-based callbacks and server session handling for Skycoin, enhancing the distributed messaging system's performance and reliability.
- Developed a Golang-based peering daemon for Skycoin's Skywire network, enabling nodes to autonomously discover and connect with peers, thereby optimizing the network's connectivity and efficiency.

Mailchain, *Software Engineer Intern (remote)*

Jan 2020 – Mar 2020 | London, UK

- Contributed to enhancing transaction security checks within the Mailchain platform, employing Golang for critical backend development and security enhancements.
- Involved in integrating public key information into mail headers to support encryption protocols.
- Assisted in the refinement of cryptographic key management methods, aiming for improved security.

SKILLS

Rust, Typescript, PostgreSQL, NoSQL, Redis, Networking, Linux, AWS, Docker, MongoDB

OPEN SOURCE

Contributed to **Ockam**; a suite of cryptographic open source programming libraries (in rust) and command line tools to orchestrate end-to-end encryption.

PROJECTS

Wyre,

An CLI network packet analyzer designed to capture and parse network packets for detailed analysis. [↗](#)

Crypto Algo, *A ground-up implementation of various cryptographic algorithms in rust. [↗](#)*