Arturo Salvio

Software Engineer / Security Researcher

ABOUT

Empowering business success through innovative solutions. Transforming ideas into scalable products, from concept to market.

TECH STACK

- gRPC
- GraphQL
- Websockets
- MQTT
- SQL Databases
- NoSQL Databases
- Native Desktop
- Native Mobile
- Malware Analysis
- Reverse Engineering
- Go
- Rust
- C#
- TypeScript
- Dart/Flutter
- Kafka & NATS
- Docker & K8s
- Cloud Native
- Microservices
- Distributed Systems

LANGUAGUES

Spanish   English

EXPERIENCE

Defining and enhancing architectural capabilities, blending technical expertise with strategic business insights.

Founding Engineer

Neurelo • California   Jul 2023 to Dec 2023

Building a scalable data platform, providing dynamic APIs, observability, and optimization for databases.

- Creating a scalable cloud platform, allowing users to replace ORMs using dynamically generated APIs (REST, GraphQL).
- Adding new features and improving user experience in the frontend.
- Implementing and enhancing backend features using Rust.
- Improving CI pipelines.

Staff Software Engineer

BlockFi • New York   Sep 2022 to Apr 2023

Leading architecture and development of a new core banking distributed system.

- Creating a scalable microservices platform (event-driven architecture).
- Defining and implementing best practices in software architecture and engineering.
- Partnering with cross-functional teams to drive optimal design decisions and proactively identifying potential future challenges and opportunities.
- Integrating third-party services.
- Migrating monolithic services to microservices.

Founding Engineer

Urth • California   Jun 2021 to Jul 2022

Leading architecture and development, defining the short and long term technology vision for a privacy-focused social network.

- Spearheading the design and implementation of a distributed system and data architecture, resulting in a performant, scalable, and reliable platform.
- Contributing as an individual contributor, defining and implementing best practices and automation processes in the SDLC.
- Designing real-time data processing and privacy-focused software.
- Capturing and sharing best practices in software architecture and engineering.
- Designing a scalable platform using event-driven microservices architecture.
- Participating in product strategy, design, and discussions to deliver the best user experience.
- Planning the technology roadmap and budget.

Director of Engineering

IKON Technologies • Texas   Mar 2020 to Jun 2021

Driving innovation in product and technology by leading the engineering team to build a scalable microservices architecture.

- Leading the design and development of mobile and cloud architecture for the next-generation IoT platform (connected vehicles).
- Defining the product roadmap and managing engineering priorities (hardware and software).
- Designing and building a new cloud platform using event-driven microservices architecture.
- Developing new mobile products, enhancing features and scalability.

Principal Software Engineer

IntellectSpace • Seattle   2017 to 2020

Playing a proactive role in the design and development of new products, creating high-availability systems for users worldwide.

- Designing products and acting as a liaison between business and technology.
- Creating product roadmaps and managing development and operations to ensure successful delivery.
- Refactoring the existing platform and implementing the latest technologies.
- Improving parallel data processing performance.
- Designing and implementing the cloud infrastructure.
- Building a new mobile platform/product from scratch, scalable to thousands of users.

Senior Software Engineer

SmarterWeb • Guadalajara, MX   2016

Developing a scalable data warehouse and processing system for a large scale electronic invoicing platform, implementing secure data signing using an HSM with PKCS11, and designing cloud infrastructure and Cassandra clusters across AWS and Azure.

Lead Software Architect

Morgan Stanley • New York   2013 to 2016

Leading development and support teams, building the new Remote Deposit Capture platform, improving code performance, and enhancing high availability and security for banking operations with redesigned scalable services.

Software Security Architect

Panacredit • Guadalajara, MX   2012 to 2013

Leading security analysis and secure software development of financial systems, working closely with clients such as Inbursa, Banjercito (Mexico National Army's Bank), Chrysler, Nissan, and BMW.

Senior Software Engineer

Panacredit • Guadalajara, MX   2008 to 2011

Leading design and development of multiple products (ranging from ECM to licensing and identity management systems using biometrics), collaborating with top automotive brands and banks across LATAM.