

GIANFRANCO BIONDI JR.

10+ Years of Engineering Excellence and Leadership

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MOST RELEVANT EXPERIENCE

Principal Engineer

Walmart Global Tech

📅 Mar. 2024 – Present 📍 Hoboken, NJ

- Designed core components of national Test and Treat initiative, enabling healthcare services delivery across 4,500+ locations serving 150M+ customers
- Technical lead for nation-wide store technology modernization, converting hundreds of legacy C programs to Go with modern architectures, reducing maintenance costs and improving deployment velocity
- Elevated engineering quality through templates, workshops, and standardized practices, reducing production incidents and decreasing onboarding time for new engineers from 2 weeks to 3 days
- Implemented analysis and process improvements, increasing developer velocity and reducing project costs by 90%
- Championed first-party Golang support within Walmart, establishing standards and tooling now used by 200+ engineers across 30+ teams

Co-Founder & CTO

Swap Health

📅 Sep. 2021 – Sep. 2023 📍 Jersey City, NJ

- Built Chrome Extension and React Native mobile app enabling thousands of users to make healthier grocery choices
- Led development team of four engineers using agile methodologies, delivering MVP in 3 months and full product in 6 months
- Architected scalable backend supporting 10M+ product recommendations with 99.9% uptime
- Designed and implemented ML-based product recommendation system achieving 85% acceptance for healthier alternatives
- Secured HIPAA compliance by implementing end-to-end encryption and comprehensive security protocols
- Played key role in successful fundraising efforts, helping seed funding through compelling technical demonstrations and roadmap

Staff Software Engineer & Technical Lead

Walmart Labs/Jet.com

📅 Apr. 2018 – Sep. 2021 📍 Hoboken, NJ

- Led effort to convert experimentation platform from Lua-based edge workers to next-gen WASM and micro-service platform in Envoy and Istio Service Mesh, improving performance and reliability for company-wide experiments
- Drove design for implementation of Experimentation data in OpenTelemetry headers for all of Walmart E-Commerce

MOST PROUD OF

💡 **Co-Founded a health-tech Start-up**
Jersey City, 2021

🏆 **ASEE SMART Scholarship**
Dept. of Defense, 2008-2012

🏆 **Dean's List**
Rochester Institute of Technology,
2006-2010

TECHNICAL SKILLS

Programming Languages

Golang C/C++ Java/Kotlin Python
Scala Javascript Typescript Lua

Infrastructure & Cloud

Docker Kubernetes Envoy Proxy
Istio nginx Linux

Data & Messaging

SQL Kafka gRPC Protobuf GraphQL
MongoDB CosmosDB Postgres
Informix

Specialties

Web Assembly Distributed Systems
Service Mesh Microservices Observability
Embedded Systems

EDUCATION

B.Sc. Computer Engineering

Rochester Institute of Technology

📅 August 2012

M.Sc. Computer Science

Georgia Institute of Technology

📅 December 2025

PUBLICATIONS

Conference Proceedings

- T. Grandahl, G. Biondi, and C. Hochgraf, “An open hardware, open source electronic load bank and data acquisition system for expanding the number of schools and students researching battery energy storage,” in *2011 ASEE Annual Conference & Exposition*, <https://strategy.asee.org/17478>, Vancouver, BC: ASEE Conferences, Jun. 2011.

Blog Posts

- G. Biondi, *Interfaces in go*, [Online; posted 11-March-2016], Mar. 2016. [Online]. Available: <https://medium.com/@gianbiondi/interfaces-in-go-59c3dc9c2d98>.
- G. Biondi, *Choosing grpc*, [Online; posted 6-August-2015], Aug. 2015. [Online]. Available: <https://medium.com/namely-labs/choosing-grpc-5089154e1ad1>.
- G. Biondi, *Syncing cache with postgres*, [Online; posted 8-September-2015], Sep. 2015. [Online]. Available: <https://medium.com/namely-labs/syncing-cache-with-postgres-7a4d78cec022>.