

# 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
- Technical lead for nation-wide store technology modernization, converting hundreds of legacy C programs to Go with modern architectures
- Elevated engineering quality through templates, workshops, git best-practices, design/PR reviews, etc.
- Championed first-party Golang support within Walmart through documentation, workshops, and adding support in CI/CD Platform

### Co-Founder & CTO

#### Swap Health

Sep. 2021 – Sep. 2023 Jersey City, NJ

- Designed and built Google Chrome Extension to help users grocery shop online
- Managed team of four engineers to reimagine extension as react-native mobile application and deploy to app stores
- Built crawlers and PostgreSQL database for grocery products
- Built core technology and API to identify and recommend grocery products
- Ensured HIPAA Compliance
- Collaborated in building business plan, product roadmap, and pitch deck
- Instrumental in fundraising effort, from angel investors to established venture capital firms (25M Health)

### Staff Software Engineer & Technical Lead

#### Walmart Labs/Jet.com

Apr. 2018 – Sep. 2021 Hoboken, NJ

- Work on internal experimentation (A/B Testing) platform (Expo)
- Powered effort in converting Lua system to full micro-service platform with Envoy Proxy via custom HTTP Filter
- Led research for next-gen experimentation engine using WASM and Istio service mesh for all of Walmart
- Drove design for implementation of Experimentation data in OpenTelemetry headers for all of Walmart E-Commerce
- Managed design and implementation of GitOps System for Experiment Self-Service

## MOST PROUD OF



### Built a Start-up

Jersey City, 2021



### ASEE SMART Scholarship

Dept. of Defense, 2008-2012



### Dean's List

Rochester Institute of Technology, 2006-2010

## STRENGTHS

Executive Presence Hard-working  
Detail Oriented Leader & Motivator  
Effective Communicator & Collaborator  
Fast Learner Team Player Mentoring

Golang C/C++ Java/Kotlin Linux  
SQL Python Scala Javascript  
Typescript React Kafka Docker  
Kubernetes MongoDB Lua Vim  
OSS Envoy Proxy Istio nginx  
gRPC Protobuf GraphQL  
Web Assembly Distributed Systems  
Raspberry Pi/Arduino Statistical Analysis  
Circuit Analysis Autodesk Fusion 360  
3D Printing Circuit Fabrication  
Embedded Systems LaTeX

## EDUCATION

### B.Sc. Computer Engineering

#### Rochester Institute of Technology

August 2012

### M.Sc. Computer Science

#### Georgia Institute of Technology

Expected December 2025

# PUBLICATIONS

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## 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.

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## 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>.