

# GIANFRANCO BIONDI JR.

## Engineering Excellence and Leadership

@ me@gianbiondi.com 862-231-5009 Newark, NJ, United States  
linkedin.com/in/gianfranco-biondi github.com/gxb5443 www.gianbiondi.com



## EXPERIENCE

### 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 contractors to build a mobile application
- Built core technology API to identify and recommend grocery products
- Ensured HIPAA Compliance
- Collaborated in building business plan 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

Jan. 2020 – Sep. 2021 Hoboken, NJ

- Led effort to convert system from Lua-based edge workers to full micro-service platform to work with Envoy Proxy
- Led research for next-gen assignment engine using WASM and Istio service mesh for all of Walmart GM and Grocery
- Designed and Implemented GitOps System for Experiment Creation
- Led design and implementation for global distributed trace header for all of Walmart E-Commerce (OpenTelemetry)

### Senior Software Engineer

#### Walmart Labs/Jet.com

Apr. 2018 – Jan. 2020 Hoboken, NJ

- Worked on Jet.com internal experimentation (A/B Testing) platform (Phaser)
- Led effort in converting Lua & C system to full micro-service platform with Envoy Proxy via custom HTTP Filter

### Network Security Software Engineer

#### DoubleVerify

Mar. 2016 – Apr. 2018 New York, NY

- Led a small R&D team for Publisher Platform
- Researched protocol-level and browser-level, advanced ad measurement and delivery techniques
- Implemented prototype on-the-fly JavaScript static analyzer
- Helped build next-gen data pipeline for real-time impression measurement, real-time bidding, and social integration
- Optimized SQL for reports from Vertica SQL Data Warehouse

## MOST PROUD OF



### Built a Start-up

Jersey City, 2021



### Dean's List

Rochester Institute of Technology,  
2006-2010



### ASEE SMART Scholarship

Dept. of Defense, 2008-2012

## STRENGTHS

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

Golang C/C++ Java Linux SQL  
Python Scala F# Javascript  
Typescript React Kafka Docker  
Kubernetes MongoDB Lua Vim  
OSS Envoy Proxy Istio nginx

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

September 2006 – August 2012

### M.Sc. Computer Science

#### Georgia Institute of Technology

March 2020 – Ongoing

# 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>.