# GIANFRANCO BIONDI JR.

**Engineering Excellence and Leadership**

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## 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 product crawlers for grocery
- Built core technology API to identify and recommend grocery products
- 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 micro-service platform to work with Envoy Proxy
- Led research for next-gen experimentation engine using WASM and Istio service mesh for all of Walmart
- Designed and Implemented GitOps System for Experiment Self-Service
- Led design and implementation for global distributed trace header for all of Walmart E-Commerce

### 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 large SQL used in Vertica 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**

📅 Expected Graduation December 2024

# 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.