

# GIANFRANCO BIONDI JR.

## Engineering Excellence and Leadership

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## EXPERIENCE

### Co-Founder & CTO

#### Swap Health

📅 September 2021 – September 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

### Staff Software Engineer & Technical Lead

#### Walmart Labs/Jet.com

📅 January 2020 – September 2021    📍 Hoboken, NJ

- Work on internal experimentation (A/B Testing) platform (Expo)
- Lead effort to convert system from Lua-based edge workers to full micro-service platform to work with Envoy Proxy
- Lead research for next-generation assignment engine using WASM and Istio service mesh for all of Walmart GM and Grocery
- Designed and Implemented GitOps System for Experiment Creation
- Lead design and implementation for global distributed trace header for all of Walmart E-Commerce (OpenTelemetry)

### Senior Software Engineer

#### Walmart Labs/Jet.com

📅 April 2018 – January 2020    📍 Hoboken, NJ

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

### Network Security Software Engineer

#### DoubleVerify

📅 March 2016 – April 2018    📍 New York, NY

- Lead 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  
Organized    Detail Oriented  
Leader & Motivator    Fast Learner  
Effective Communicator & Collaborator  
Team Player    Mentoring

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

## EDUCATION

### B.Sc. Computer Engineering

#### Rochester Institute of Technology

📅 September 2006 – August 2012

### M.Sc. Computer Science

#### Georgia Institute of Technology

📅 March 2020 – Present

# PUBLICATIONS

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## Conference Proceedings

- Tyler Grandahl, Gianfranco Biondi and Clark Hochgraf (June 2011). “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*. 10.18260/1-2-17478. <https://strategy.asee.org/17478>. Vancouver, BC: ASEE Conferences.
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## Blog Posts

- Biondi, Gianfranco (Mar. 2016). *Interfaces in Go*. [Online; posted 11-March-2016]. URL: <https://medium.com/@gianbiondi/interfaces-in-go-59c3dc9c2d98>.
- – (Aug. 2015a). *Choosing gRPC*. [Online; posted 6-August-2015]. URL: <https://medium.com/namely-labs/choosing-grpc-5089154e1ad1>.
- – (Sept. 2015b). *Syncing Cache with Postgres*. [Online; posted 8-September-2015]. URL: <https://medium.com/namely-labs/syncing-cache-with-postgres-7a4d78cec022>.