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 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

📅 Jan. 2020 – Sep. 2021   📍 Hoboken, NJ

- Lead effort to convert system from Lua-based edge workers to full micro-service platform to work with Envoy Proxy
- Lead 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
- Lead 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

- 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
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

👥 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.