

Gianfranco Biondi Jr.

Computer Engineer/Developer

WORK EXPERIENCE

MAR. 2016 - PRESENT

Software Engineer *DoubleVerify*

Led R&D for Publisher platform in Go, Javascript, Docker and Nginx. Research included protocol level experiments with TCP/UDP and HTTP/2 as well as with advanced Javascript techniques on the client side. Also helped build next-gen data pipeline with Apache Kafka and Spark and optimized SQL for Vertica.

DEC. 2014 - MAR. 2016

Software Engineer *Namely*

Designed micro-services for web HR platform using Go, Postgres, and Docker. Built open source historical database.

OCT. 2012 - PRESENT

Technology Contractor *Self Employed*

Provided technology services to various companies. The work included UNIX server design, large-scale data migration, website design, Golang/Python/PHP/Javascript web application design, and work for the iOS and Android platforms.

FEB. 2013 - SEPT. 2013

Lead Developer *Creative Technology Designs*

Designed and built custom native mobile and web applications for small businesses.

MAY 2008 - SEPT. 2009

Engineer at Warner Robins Air Logistics Center *United States Department of Defense*

Wrote secure communication software tool for use with all military GPS units as well as troubleshooted circuits for high precision timing interface with GPS simulation computers using .NET, Java and C++. Also performed testing, reports and troubleshooting for GPS units. Aided in reverse engineering of C-5 Galaxy Cargo Aircraft landing gear sequence control system and designed and implemented a new system using VHDL including testing procedures and documentation.

JULY 2007 - AUG. 2009

Technology Contractor at Princeton University Plasma Physics Lab *Insitach Inc.*

Maintained and developed C/C++ and UNIX software for the Miniature Integrated Nuclear Detection System used by the US Department of Homeland Security and US Department of Energy. Also researched high precision measurement techniques including photogrammetry, laser tracking and ultrasonics during the construction of the NCSX as well aided in construction and engineering.

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EDUCATION

2012 **Bachelor of Science**
COMPUTER ENGINEERING
Rochester Institute of Technology
Master of Science
COMPUTER SCIENCE
Rochester Institute of Technology

AWARDS

2008-2012 **ASEE SMART Scholarship**
ASEE/United States Department of Defense
2006-2010 **Dean's List**
Rochester Institute of Technology

SKILLS

Advanced Knowledge	Golang, Docker Java, Linux, vim, Python, HTML, \LaTeX , Kubernetes, Javascript, C/C++, Scala, SQL, MatLab, GCC/GDB, Circuit Analysis, Oscilloscopes/DMM, Power supplies, Fabrication, vhdl, Altera Quartus, Xilinx, Nginx, Serial Bus Protocols,
Basic Knowledge	SmallTalk, Alloy, UML, Eclipse, 3D Printing

RELEVANT COURSES/PROJECTS

Cryptography
Calculus and Discrete Math
Embedded System Design
Computer Vision
Electronics/Circuits Analysis
Signals and Systems
Computer network Security
Biologically Inspired Intelligent Systems
Freshman Robot Re-Design
FPGA-Powered Quadrature Encoder
Kinect/OpenCV powered V-SLAM Robot