

# Gianfranco Biondi Jr.

## Computer Engineer/Developer

### WORK EXPERIENCE

MAR. 2016 - PRESENT

#### Network Security Software Engineer *DoubleVerify*

Led R&D for Publisher platform in Docker, Go, Javascript 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.

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, Python/PHP/Javascript web application design, and work for the iOS and Android platforms. Also provided data science and machine learning.

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 to be used 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 as aided in construction and engineering.

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### EDUCATION

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

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|--------------------|--|
| Advanced Knowledge | Golang, Docker<br>C/C++, Objective-C/XCode,<br>Java, Linux, vim,<br>Python, HTML, $\LaTeX$ ,<br>PHP, Javascript,<br>MatLab, GCC/GDB,<br>Computer Hardware,<br>Circuit Analysis,<br>Oscilloscopes/DMM,<br>Power supplies, Fabrication,<br>vhdl, Altera Quartus, Xilinx,<br>Nginx, Serial Bus Protocols, |
| Basic Knowledge    | SmallTalk, Alloy, UML,<br>Eclipse, Kubernetes  |

### 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