

Giuseppe Di Natale

Senior Software Engineer & Tech Lead
Google

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📄 [dinatale2](https://dinatale2.github.io)
<https://dinatale2.github.io>

Education

- 2015 **M.S., Computer Science**, *University of North Carolina at Chapel Hill*.
Network Analysis of TCP, Mobile Traffic, and Cloud Infrastructure
- 2010 **B.S., Computer Science**, *University of South Florida*, Summa Cum Laude.
- 2010 **B.S., Computer Engineering**, *University of South Florida*, Summa Cum Laude.

Skills

- General C, Go, git, bash, C++, C#, Latex, SQL, Continuous Integration, Linux Kernel Development, Python, svn, autotools.
- HPC Parallel & Distributed File Systems, Cluster Configuration Management, Distributed Systems.
- Security Symbolic Execution, Basic Reverse Engineering.
- Digital Arts 3D Level Design (Quake 3 & Valve's Source Engine), Autodesk Maya.

Professional Experience

- 2018-Present **Google Cloud**, *Senior Software Engineer & Tech Lead*, Sunnyvale, CA.
Kernel Release Management & Automation, Kernel Development Workflow
- 2015-2018 **Lawrence Livermore National Laboratory**, *Computer Scientist*, Livermore, CA.
 - Develop and maintain LC's Parallel & Distributed File System capabilities.
 - Maintainer: OpenSFS Lustre Buildbot, ZFS on Linux Buildbot.
 - Contributor: ZFS on Linux, Lustre, mpiFileUtils, Maestro Workflow, others.
- Fall 2013 **University of North Carolina at Chapel Hill**, *Graduate Teaching Assistant*, Chapel Hill, NC.
COMP116 - Introduction to Scientific Computing
- 2010-2013 **Nextech Systems, Inc.**, *Senior Software Developer and Team Lead*, Tampa, FL.
Led 6 developers; Developed features and bug fixes for frontend and backend services; Performed database conversion and management.

Research Experience

- 2014-2015 **Networks Lab, UNC Chapel Hill**, *Research Assistant*.
Researched network traffic collection and analysis at the TCP level.
- Summer 2014 **Cyber Security (Division 5), MIT Lincoln Laboratory**, *Research Intern*.
Researched use of symbolic execution to find vulnerabilities in Windows drivers.
- Spring 2014 **Networks Lab, UNC Chapel Hill**, *Research Assistant*.
Researched use of Network Simulator 2 to simulate RAPID TCP.
- Summer 2009 **Hardware Verification, USF**, *Undergraduate Research Assistant*.
Researched development of algorithms for the logical verification of circuits.
- Summer 2009 **Sprayable Solar Panels, USF**, *Undergraduate Research Assistant*.
Researched development of methods to produce sprayable solar panels.

Specialized Courses

- Graduate Wireless Networks, Big Data, Distributed Systems, Compilers, Operating System Implementations, Computer Graphics, Physically Based Models & Simulation
- Undergraduate Networks, CMOS/VLSI Design, Software Engineering, Simulation, Software System Development, Design Automation, Web Applications, Computer Animation, AI Robotics

Open Source Software Contributions

- ZFS Buildbot Maintainer of the continuous integration platform for ZFS on Linux.
- Lustre Buildbot Maintainer of the OpenSFS continuous integration platform for Lustre.
- ZFS on Linux Contributor and Reviewer to the OpenZFS port to Linux.
- Lustre Contributor to the Lustre File System.
- mpiFileUtils Contributor to mpiFileUtils tool set.
- Maestro WF Contributor to Maestro Workflow tool.
- LMT Contributor to Lustre Monitoring Tools.

Awards & Honors

- 2017 LLNL award for organizing & leading a [Super Computing Reddit AMA](#) on r/science
- 2016 LLNL award for STEM outreach and participation in Expanding Your Horizons
- 2010 University of South Florida College of Engineering Most Outstanding Graduate Award
- 2008 Mozelle Beverly Scholarship
- 2006 Florida Academic Scholar's Award – Award for 100% tuition
- 2006 University of South Florida Scholastic Achievement Award
- 2006 University of South Florida Director's Award
- 2006 International Baccalaureate Diploma
- 2006 Derby Lane Scholarship
- 2006 Walmart Foundation Scholarship
- 2004 Outstanding Volunteer Award – Awarded by Pinellas County School Board
- 1997 Doorways Scholarship – Award for 100% tuition

Memberships

- Honor Societies Tau Beta Pi – Florida Gamma

University Activities

- Spring 2010 Vice President, USF ACM
- 2009-2010 Web Master, Tau Beta Pi – Florida Gamma Chapter
- 2008-2009 Record Keeper, Tau Beta Pi – Florida Gamma Chapter

Volunteer Experience

- 2016-Present **Expanding Your Horizons, *Tri-Valley,***
Organized and hosted a workshop on how to build an MP3 player in C#.
- 2016-Present **Expanding Your Horizons, *San Joaquin,***
Organized and hosted a workshop on how to build an MP3 player in C#.
Provided assistance to other workshops.
- 2004-2006 **Sutherland Elementary, *Palm Harbor, FL,***
Volunteer Tutor.
- 2002-2004 **Sutherland Elementary, *Palm Harbor, FL,***
Technology Lab Assistant.