Vincenzo "Enzo" Damato

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Education

Rice University, B.S. in Computer Science and B.A. in Business/Finance (GPA 3.55)   **Expected Graduation May 2027**

Skills

Linux administration, Python, C, Go, Java, JavaScript (React & Vue), PostgreSQL & SQL databases, networking, Mainframe (z/OS, COBOL, JCL), Docker & Kubernetes, Virtualization and Enterprise storage, VoIP (Kamailio, Asterisk), Consulting

Research and Conference Presentations

DEF CON 33: Journey to the Center of the PSTN and at NANOG 95, SHARE S2022: So you just bought a z114 (won best speaker award), SHARE S2025: Notes from the field: Introductory Mainframe Education, SHARE S2025: An introduction to Linux for the Mainframer

Work Experience

President, Rice Telecom Corporation (Houston, TX)   **May 2023 – Present**
- Wrote containerized, carrier-grade Class 4/5 softswitch with multi-active-region high availability and custom anycast load balancing. Built using Golang, Docker, Kafka, and Kamailio. Stable at 250+ calls per node (current limit of testing system).
- Built 3 bare-metal Kubernetes clusters in 3 different regions and automated deployments with Terraform. The entire voice network system, from media handling functions to back office billing systems can be managed from a single interface.
- Completed CLEC certification process in NY and TX, and obtained direct IP interconnection with ILEC carriers. Allowed substantial decreased in per LATA interconnect costs, and enabled direct access to numbering resources.
- Developed fixed-mobile converged switch system, combining 2G, 4/5G (IMS), and fixed voice clients.
- Started regulatory and technical consulting practice for carrier telecommunications clients (currently 6 clients and 8 projects)
  - Responsible for writing and submitting CLEC applications and tariffs to state PUCs (each 100+ pages), enabling companies to legally obtain phone number resources. Currently have a 100% approval rate.
  - Developed and designed a variety of custom voice network systems for fixed and mobile applications, using a range of technologies (Kamailio, Asterisk, ENUM, Kubernetes) Currently serving as core network for several clients.
  - Pioneered several new strategies for obtaining facilities-based ETC designation for MVNOs. Allowed clients to realize a 50% increase in per-user-per-month revenue by accessing federal as well as state funding.

Backed & DevOps Engineer, Sequoia Wireless   **May 2025 – August 2025**
- Developed routing bridge between T-Mobile's call redirection API and internal voice switching tools using Golang.
- Built anycasted DNS server cluster for ENUM based storage of call routing information. Allows for unlimited system scalability.
- Deployed Kamailio & RTPEngine Cluster to handle call routing and media for subscribers on MVNO and fixed networks.
- Developed internal call routing platform using Go to route calls from MVNO subscribers using above components.

Student Network Engineering Intern (Houston, TX)   **August 2024 – Present**
- Developed department wide centralized billing system for IT services using React JS, Golang, and PostgreSQL. Ties into all IT systems to automatically compute and post usage and charges for all IT services to Oracle ERP. Saved 60 hours of labor per year.
- Built self-service portal for deployment of custom SSIDs using ReactJS, and built a custom REST API for Cisco in-wall access points using Selenium, Ansible, Python, and Oauth2. Enabled students to deploy custom wireless networks in their dorm rooms.
- Designed, configured, and deployed new data center row, including configuring spine and leaf switches and public-facing BGP peering routers.

Research Intern, Rice University RENEW Lab (Houston, TX)   **April 2024 – August 2024**
- Selected as lead summer research intern at NSF-funded 6G radio development lab.
- Developed 5G o-ran core and FPGA radio performance testing automation suite using Python and Ansible.
- Developed system configuration, test status, and performance metrics visualization system using React and Django.
- Extended automation system to automate configuration monitoring and management for lab's Linux systems.

President, Orange Country Technology Services (New Windsor, NY)   **January 2017 – January 2023**
- Incorporated MSP to help local area small businesses and nonprofits with networking and IT needs.
- Designed and implemented several dozen small business networks, including complex multi-site deployments.
- Created custom Windows cleaning and repair automation program. Decreased turnaround time for customer computers by 47%.
- Designed and implemented 54 IP surveillance systems, ranging from single camera to multi-site systems.

Project Experience

AS25944 (Public Autonomous System) / Lab Systems Administrator   **January 2017 – Present**
- Installed a 5-node KVM virtualization cluster with real-time fail-over and high availability features, backed by a fiber channel storage area network, automated tape library and backups.
- Deployed open-source Linux-based identity and authentication system with Kerberos, web SSO, Active Directory federation, a global AFS file system, and numerous other (38) development and enterprise applications.
- Developed and maintained public Linux mail servers with a custom-built AI spam filter, hosted on own IP space.
- Built network-wide Ansible automation system for declarative configuration across all hosts and routers
- Deployed multi-site, publicly routable, IX peered ASN as backing network (AS25944).

IBM Mainframe Thought Leader   **March 2022 – August 2023**
- Recognized globally as youngest person to set up a mainframe successfully.
- Built custom DASD unit using Linux, work incorporated into Linux IO project kernel drivers.
- Successfully sysgenned all major mainframe OSes (z/OS, Z/VM, VSEn), and set up environments on all three.
- Developed and instructed a credit-bearing Rice University course in mainframe, covering ISPF, COBOL, JCL, and CICS.