

# Michael Bevilacqua's Resume

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**About myself:** *"Senior infrastructure engineer with 28 years building Linux-based network systems at scale — from regional ISPs to Oracle Cloud's global network. Experienced in Python automation, network observability, and CI/CD pipeline development."*

## Key Skills

- Linux system development, administration and deployment.
- Linux containers (Docker, Rancher, K8s)
- SDLC CI/CD (Jenkins, GITLAB)
- Source control (GIT, GITLAB)
- Languages (BASH, Python)
- IAAS (Ansible)
- Network OS development and management (SNMP, SYSLOG)
- Network logic fundamentals (TCP/IP, UDP, BGP, NLB)
- IAM Security (ICE, AAA, 2FA)
- Cloud platform development (OCI, AKAMAI)
- Fiber optic manufacture test engineering.
- Agile project management methodology.
- ITIL standards for Enterprise IT software and tool development.
- Foundational understanding of OpenSource licensing.

## Professional Experience

### **IC6 - Senior Principal Software Engineer at Oracle Corporation (Austin, TX) July 2021 - April 2026**

• Network Management Software Development for Oracle's Cloud Infrastructure (OCI), Oracle Health (OHAI) and legacy global networks.

- Global operations network management utilizing Nagios, ELK/OpenSearch Grafana and Cisco ThousandEyes platforms.
- Oracle cloud (OCI) network management utilizing Oracle's Python SDK.

- Cerner Health network data acquisition and management. Migration into OCI Prometheus, Grafana and OpenSearch.
- Achievements
  - Drove sustained improvements in global network observability through tooling development and platform integration.
  - Key contributor to root cause analysis translating findings into actionable monitoring improvements.
  - Reduced operational overhead through development of internal tooling.
  - Applied security-first development practices across all network management tooling.

**Network Developer II at Charter/Spectrum Enterprise fka. Time Warner Cable (Austin, TX) February 2010 - July 2021**

- Linux software, systems and network development for Time Warner Cable/Charter's national network.
  - National core fiber network management development.
  - BASH and Python micro service development.
  - Carrier fiber network configuration management.
  - Linux systems development and administration.
  - Data Center engineering.
- Achievements
  - Tools integrations in middleware through APIs increasing search and usability.
  - Micro service development for automated configuration management.
  - Cost saving migrations to Open Source solutions.

**VOIP Engineer at Coredial, LLC (Blue Bell, PA) January 2010 - June 2010**

- VOIP software and hardware development for a greater Philadelphia regional network startup company.
  - Asterisk Open Source VOIP PBX system development.
  - VOIP phone interface integration with Asterisk.
  - Linux systems administration and development.
  - Customer software feature requests.
- Achievements
  - Connected small and medium business customers to a fully configurable software PBX UI.
  - Migrated and supported residential customers from POTS lines to VOIP telephones.

**Director, Systems and Network Management at Digital Wave Technologies (Huntingdon Valley, PA) May 2003 - January 2010**

- Technical Director of technologies consultation for a prominent regional web development firm with a focus on Open Source solutions.
  - Server and client OS development and administration.
  - Network development and administration.
  - On-prem technical consultation for regional client base.
- Achievements
  - Supported small and medium businesses with their company's initial web presence.
  - Wide range of business models including global logistics, bio-tech research and audio/video engineering.
  - Developed local technical solutions specific to client's business requirements.

**Automated Test Engineer at JDS Uniphase aka. Finisar (Horsham, PA) July 2001 - May 2003**

- Manufacture Engineering for Automated Test Environments supporting R&D lab and production of 1510nm and 1660nm fiber optical transceivers.
  - Linux system development for fiber transceiver test stations.
  - NI and Siemens optical electronic measurement systems integration in code (TCL, BASH).
  - Cisco KLEM test post silicone validation for high density networking.
  - Final specification test reporting.
- Achievements
  - 50% travel time in between Horsham, PA and Ottawa, CA HQ distributing test plans for NPI.
  - Centralized, networked database design in between manufacturing facilities.
  - Cost savings and increased technician usability utilizing developed code base over NI LabView platforms.

**Tier Two Linux Operations Support at Aspre, Inc. (Horsham, PA) October 2000 - July 2001**

- System admin for co-located Linux CobaltRaQ datacenter 2U server support for AT&T customer base.
  - On-call operations shift work in both Tier One and Two capacity.
  - Responsible for technical support on the Linux Cobalt RaQ platform.
- Achievements
  - Supported national base of customers with a wide range of emerging web presence technologies and business requirements.

**Tier One Technical Support at Maysoft, Inc. (North Wales, PA) June 2000 - October 2000**

- Technical support desk for Maysoft 'Prowler' financial planning software.
  - Remote assistance of customer navigation within the software application.
  - Feature request and bug documentation project management.
- Achievements
  - Supported wide base of residential and business customers utilizing previous financial experience and technical knowledge.

**IT Support Help Desk at Fidelity Federal Group (Fort Washington, PA) August 1998 - June 2000**

- On-prem Information Technology support desk for prominent local financial accounting firm.
  - Unix (Solaris), Win32 OS and OS/2 Warp OS networked office using Novell NetWare.
  - Accountant applications training and OS support.
- Achievements
  - ISDN WAN network connection install for LAN connectivity.
  - PBX install and administration.
  - Interactive Voice Response (IVR) install and administration.

*Volunteering in Technology (STEM)*

- Philadelphia Linux User Group (2000 - 2010)  
<https://phillylinux.org>
- Time Warner Cable "Connect a Million Minds" (2010 - 2013)