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Experience

March 2020–
May 2021

Software Quality Assurance Engineer,
Censys, Ann Arbor, MI.
Establish and maintain software QA practices and testing environment

- I was the initial SQA engineer hired at Censys and am now one of two. We work closely with product management, sales engineers, site reliability engineers, and development engineers to guide the quality processes, ensure the product code is both testable and tested, and maintain the testing environments.
- The Censys Attack Surface Management product is a Kubernetes-based SaaS application that is written in Python, Go, and Typescript. It runs in Google's cloud environment. We use Cypress for UI testing, SonarQube for code coverage tracking, GitlabCI for creating test environments, and Jira for project management.
- I used Terraform and Ansible to create and maintain a test environment in AWS and wrote services for the test environment in Go and Python.
- I coordinate defect review sessions, deployment retrospectives, manual regression testing, and participate in development team Scrum ceremonies.

2015–2020

Software Quality Assurance Engineer,
NETSCOUT (formerly Arbor Networks), Ann Arbor, MI.
Responsible for Software Quality Assurance

- I was a member of a 40-person team of developers and software quality assurance (SQA) engineers responsible for advanced network monitoring and security software using Scrum/Agile methods; I was a team-lead for 4-6 person teams to engineers for several feature development cycles
- I developed tools in Python and bash for both automated and manual test cases; worked with developers and other SQA engineers to deliver high-performance, stable software with a consistent and useful user experience
- In addition to typical SQA assignments, I have worked on developing and testing an application based on Kafka, Druid, and HDFS in a Docker and Kubernetes environment; designing, developing, and testing a REST API to present a consistent programmable interface to our customers and developers

2004–2015 **Director of High-Performance Computing**,
University of Michigan College of Engineering, Ann Arbor, MI.
Responsible for high-performance research computing operations

- ○ I supervised seven direct staff and coordinated with many other IT staff, administrators, and researchers in support of their advanced computing needs
- ○ I designed and guided the implementation a shared high-performance computing service for U-M that integrates with U-M business processes, comprises over 12,000 compute cores and supports almost 200 U-M research projects

2003–2004 **Email and Unix Administrator**, *Fox Chase Cancer Center*, Philadelphia, PA.
Responsible for Unix-based email system for researchers and clinicians

- ○ I successfully migrated over 800 active email users from two older IMAP email servers to one upgraded and consolidated IMAP email server.
- ○ I was responsible for `sendmail`-based gateways and associated anti-virus and anti-spam filters.

2002–2003 **Unix and Network Administrator**, *Forest Health Services*, Ypsilanti, MI.
Responsible for Unix and Networking at a private multi-clinic specialty health-care provider.

- ○ I was responsible for Veritas NetBackup on Solaris that managed backups of HR and financial data, CRM data, patient data from VMS systems, staff home directories on Windows and Novell, and email from Exchange 5.5 and 2000 servers
- ○ I was responsible for a Cisco-based LAN and WAN, including T1 and Frame Relay links, site-to-site and roaming-user VPNs, including carrier relationship management, WAN expansion, and network monitoring

2000–2002 **Information Technology Manager**, *PGAM / Uniphied Thought*, Dearborn, MI.
- ○ I was one of a team of two responsible for supporting a CAD and office computing environment in four locations around metropolitan Detroit

1998–2000 **Unix and Network Systems Engineer**, *Mechanical Dynamics*, Ann Arbor, MI.
- ○ I was responsible for supporting over 120 end-user UNIX workstations and UNIX servers and contributed to the network security policies and their implementation for the company

1997–1998 **Systems and Network Engineer**, *Transom Technologies*, Ann Arbor, MI.
- ○ I was responsible for installing and maintaining SGI IRIX, Linux, Windows 95, and Windows NT Workstation and Server operating systems in a dynamic, start-up company atmosphere with about 30 employees

1994–1997 **Systems Research Programmer II**,
University of Michigan College of Engineering, Ann Arbor, MI.
- ○ I was the sole full-time system administrator for the three UNIX-based massively parallel computers at the University of Michigan's Center for Parallel Computing: a 16 processor Silicon Graphics PowerChallenge; a 48 node IBM SP2; a 32 processor HP/Convex Exemplar SPP-1600

Education

1993–1996 **M.S., Nuclear Engineering**, *University of Michigan*.

1989–1993 **B.S., Nuclear Engineering**, *University of Michigan*.