

Tido Ciaravino

(850) 320-8436
Florida
tido@tido.com

Career Summary

I am a geek at heart and a lifelong learner

My foci are resilience, root cause analysis, and continuous delivery

I have over 30 years of professional experience and over 35 years of personal experience with large scale computing and data processing, information security, programming, and related technologies

This work has been done in various combinations of on-premise, hybrid, and cloud environments

I also have over 20 years of experience managing IT, development, and operations groups ranging from small teams of 7 or less to large departments / small companies of 40-50

Skills Overview

I have the ability to communicate both verbally and in written form to a wide range of technical and non-technical audiences including customer and partner facing roles

Large scale compute and data with a focus on big data aggregation, processing, and performance

Extensive information security experience including architecture, policy, forensics, and auditing

Expert UNIX sysadmin with over 20 years of experience starting with Linux 0.9 in 1993 and including other UNIX variants over the years such as SunOS/Solaris, HP-UX, and AIX, with contributions to Arch, Gentoo, and ZFS on Linux

Certifications

- ISO 27001 Lead Auditor
- Check Point CCSA & CCSE
- Cisco CCNA

Honors

- Received First Union National Bank Information Security Division MVP award for the Cyberbanking Security Review
- Received Army Commendation Medal for placing 2nd in the All Germany Ratt Rodeo
- Received Army Achievement Medal for achieving top score in the Brigade for the Ratt MOS
- Honors College Western Michigan University

Work History

Consulting 2005–Present

Domestic and international consulting in roles ranging from low-level systems analysis, design and implementation through large scale architecture and organizational transformation

Major initiatives in included:

Big data aggregation, processing and performance for the Pharmaceutical industry including work on COVID-19 using NiFi, HBase, Sqoop, Hive, Hadoop, SQL, HQL, Oracle, Node, Python, Groovy, JavaScript, Jolt Transforms, Logstash Grok, Bash

Cyber Range architecture, research and development for enterprise and government clients designed for both on-premise air-gap environments and hybrid/full-cloud deployments implemented using various combinations of physical systems and networks, virtual systems and networks, and highly scalable containers/zones all implemented by Software Defined Infrastructure (SDI)

Linux Network Attached Storage appliance architecture, and development. Featuring custom installation interface and media with private repository and packaging using ASH, BASH, Python, C, HTML and JavaScript. Defined development, deployment, and project management work flows.

Lead performance improvement research and development for high volume secure messaging and file transfer solutions provided to financial services, healthcare and government customers. Developed formal documentation, and presented findings to management and development teams. Worked with internal teams for application of research to current products.

Operational improvements and billing system transition for telecommunications customer composed of 9 companies in 7 countries. Operational improvements for delivery of internal business applications and SAP, and Computer Telephony Integration (CTI) and PBX/800 call infrastructure for all inbound and outbound calls.

Trading Infrastructure migration to the cloud and performance improvements under extremely bursty traffic loads while raising up-time and lowering Recovery Time Objective (RTO). Staff transformations to improve development, deployment, monitoring and alerting.

Work History (continued)

Provided leadership, and improved the software development and production environment for a high volume online poker network consisting of game servers, white label clients, back office suite, cashier services, and web services for integration with external partner systems. Managed all technical teams and improved operations, information security, scalability and reliability.

Business Continuity Planning / Disaster Recovery (BCP/DR) and information security improvement for the online trading industry including ISO-27001 certification and preparation for transition to traditional banking
Research and Development for affiliate networking systems serving the top online gambling companies. Set long term strategic goals and short term tactical solutions, and provided management for all technical teams

Ruby on Rails development for Internet Banking industry, implementing both front and back end solutions in a Behavior-Driven Development environment. Using Ruby on Rails, SQL, Cucumber, and Travis CI

Python/Django development leading a team serving customers in the gaming and weather industries using Python, Django, SQL, JavaScript, CSS and other related technologies

LendingTree, Inc. Charlotte, NC 2001–2005

Director of Information Security - Created Information Security Department for LendingTree, Inc. Tasked with bringing the organization from a startup state to a state of managed risk. Responsible for all aspects of Information Security including corporate strategy, risk management, policy and procedures, investigations, intrusion detection, new technology review and approval, source code reviews, security tool software development, perimeter architecture, firewall policy review and approval, security posture assessments, preparation coordination and follow up for third party audits, hiring and mentoring information security staff, training and information security awareness for other departments, vulnerability and virus monitoring and alerting, and physical security architecture.

Work History (continued)

First Union National Bank (Wachovia/Wells Fargo), Charlotte, NC 1996–2001

First Union National Bank was one of the largest financial holding companies in the US with \$171 billion of total assets, over 70,000 employees and 2,193 branches serving over 13,000,000 customers. It acquired Wachovia and assumed their identity, and was later acquired by Wells Fargo.

Major roles in included:

Technical Architect - Responsible for overall technical architecture of the Cyberbanking development effort. Cyberbanking was the first full featured online banking application. Duties include security and performance architecture, technology research, network architecture design, and planning, implementation of network level encryption, stress testing of the production environment, and system administration.

Internet Outbound Channel Owner - Services provided to the corporation include Internet E-Mail (sendmail/smtpd) and outbound proxy/cache with content filtering for for 70,000+ employees, all external and DMZ DNS for multiple secondary and tertiary domains, and NTP services for DMZ and Intranet use. (all services provided with geographic distribution and fail-over) Responsible for Internet Outbound channel: security, design, implementation, performance, expansion, budgeting, change control, investigations support, and building/mentoring Internet Outbound team. Technologies used to deliver Internet Outbound services include: firewalls, routers, switches, enterprise class servers, RAID, and LAN/WAN connectivity. Improved security posture through process changes, configuration management, documentation, and security posture assessments.

Ethical Hacker - Responsible for developing and executing the role of Ethical Hacker for First Union. Duties include Penetration Testing, security posture assessments, security reviews, source code reviews, CERT program management, vulnerability research, security product reviews, formal security policies, war dialing, DMZ security architecture and active network monitoring, network security compliance program management, expert technical assistance to investigations team, and system administration. Member of the High Tech Crime Investigation Association.

Work History (continued)

Intrusion Detection Manager - Responsible for developing and executing Intrusion Detection Capability for First Union, and for oversight of Network Security Services Information Security Policy, Procedures, and Posture. Charged with architecting and implementing Intrusion Detection in time for Y2K rollover, from design and implementation to monitoring and building/mentoring the Intrusion Detection team. Duties included Intrusion Detection management, incident response, expert technical and security assistance to NSS teams, development of NSS Standards, DMZ security architecture, development of NSS security lockdown configurations for servers and network hardware, assessment of NSS security posture, vulnerability research, and security product reviews.

Earth Shine, Michigan 1991–1996

Owner - Consulting services include: Internet installation, configuration, and maintenance, WWW design, database programming, local area networking, software installation and training, traditional security systems, and video monitoring systems.

Major initiatives in included:

Start-up and ongoing development of an Internet Service Provider (ISP) for a media company. Duties included budgeting, designing and implementing the network, hiring and managing technical staff, developing Internet services (WWW, Mail, News, FTP, IRC, Real-Audio), planning and implementing security, credit card processing, developing custom reporting software, and system administration.

Information systems administration - Responsible for managing the Information Systems staff, including project scheduling, budgeting, reporting, staff training, new project development, and system administration. Responsible for developing Internet based resources of information and application software accessible through a distributed computing environment, including: WWW, Fulcrum FullText (and related document processing databases), UMI ProQuest (delivery via fax), fax on demand, and BBS. All services made accessible both through the Internet and dial-up, with online credit card processing.

Rose-Hulman Institute of Technology, Terre Haute, IN 1990-1991

Computer Services Technician - Responsible for network installations, trouble-shooting, computer maintenance and repair.

Work History (continued)

United States Army, Babbenhausen, Germany 1988-1989

31C Radio Teletype (Ratt) - Ratt team leader responsible for transmitting and receiving classified documents in battle-field environments. Secret Security Clearance for encrypted communications, cryptographic materials handling procedures, physical security procedures, and sensitive document disposal.