Michael Ly

Software Developer | Data Analyst | SOC and Cyber Security Analyst

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EDUCATION

University of Louisville (UofL), College of Business, Louisville, KY   August 2019 – May 2022
*Bachelor of Science in Business Administration. Major: Computer Information System*s
- **Concentrations:** Cyber Security and Business Process Management
- **Cumulative GPA:** 4.00/4.00 (Summa Cum Laude)

TECHNICAL SKILLS

Coding Languages: HTML5, JavaScript/TypeScript, Java, C# .NET, Python, SQL, Git
Applications: Microsoft Visual Studio, Visio, Excel, Access, MySQL, Microsoft SQL, Power BI, Jupyter, Tableau, VM Workstation Pro, WinHex, FTK Imager, WordPress, Duda, Wix, ArcGIS, DBVisualizer, Golden 6, WinSCP, PuTTY, Bomgar, Jira, Sumo Logic, UltraEdit, Wireshark, Splunk, Zeek, Wazuh, Huntress, Velociraptor, Snort, Autopsy, Suricata, Brim, Truescreen, Fieldprint, Microsoft Azure, AWS, Microsoft Sentinel, Elastic
Operating Systems: Windows, Sierra OS, Linux Ubuntu, Kali Linux

CERTIFICATIONS

Certifications: CompTIA Network+ (N10-008)
CompTIA Security+ (SY0-701)
CompTIA CYSA+ (CS0-003)
CompTIA CSAP
Cisco Certified Network Associate (CCNA 200-301)
Splunk Core Certified Power User (SPLK-1002)
Azure Administrator Associate (AZ-104)
TryHackMe SOC Level 1
Certified Information Systems Auditor (CISA) [Passed - Pending Certification]

PROJECTS

Active Directory Home Lab with Splunk Integration
- Implemented an Active Directory Home Lab integrated with Splunk for IT administration and cybersecurity practice while simulating attacks using Atomic Red Team to test threat detection

SOC Lab with XDR and SOAR Capabilities
- Constructed a SOC lab using Shuffle for SOAR capabilities, The Hive for case management, and Wazuh for SIEM and XDR. The lab's main goals are to automate security operations and improve expertise in SOC workflows and incident response

Azure Sentinel Honeypot
- Deployed Azure Sentinel as a cloud-based SIEM system and configured Azure Virtual Machines as honeypots to simulate and monitor live global cyber-attacks utilizing threat monitoring strategies and SIEM capabilities

Web Development Capstone Project
- Collaborated as a student web Developer and consultant within a group that was specifically chosen by non-profit organization, Wilderness Louisville, to redesign their website over a scrum sprint life cycle using WordPress along with front-end HTML5/JavaScript coding and enhancing SEO with plugins and APIs for improved website ranking

WORK EXPERIENCE

AmeriCorps VISTA: Database Manager and Grants Writer   August 2023 – Present
YouthBuild Louisville (YBL) – Louisville, KY
- Utilized multiple local and federal information management systems, including the Department of Labor (DOL) GPMS, for data collection & analysis, auditing, background checks, dashboard and KPI maintenance, program evaluations, and producing insights for stakeholders
- Designed databases using SQL and Python, and generated an advanced Power BI report that is based on compiled and analyzed cumulative data from YBL programs throughout the year, transforming data into compelling narratives

that highlight the organization's annual successes and impact, providing stakeholders with a detailed and persuasive overview of YBL's achievements and progress

- Developed a project plan linking young adults convicted of crimes with legal counsel, facilitating the process from conviction to potential reduction of charges or expungement under relevant law sections. This involved navigating the legal system and establishing connections and insights through collaboration with various law firms and organizations
- Secured and managed substantial grants from prominent corporations and federal agencies including Norton Healthcare, Bank of America, USDA, and Louisville Metro Government with fixed-grants funding up to $1,000,000. These grants funded YouthBuild Louisville, a 501(c)(3) non-profit organization, and its key partners, such as Meyzeek Middle School and Project Warm, a non-profit dedicated to energy-saving for low-income and disabled residents
- Attended meetings and council sessions for federal initiatives and grants offering insights and recommendations to support discussions and decision-making
- Developed strategies in navigating and utilizing information systems, including dashboard creation and data usage, to support organizational capacity growth
- Conducted comprehensive audits and transformed financial information, including W-2s, audit reports, 501(c)(3) statuses, tax designation letters, budget reports, and Form 990s, ensuring accuracy and compliance

Systems Integration Analyst   May 2022 – July 2023
Equifax – Louisville, KY

- Coordinate resolutions alongside with client relationship managers, interface engineers, sales representatives, IT and support personnel to identify client business problems, develop solutions, and ensure satisfaction and deadline met
- Provided support in on-developing integration plans by identifying customer requirements, establishing objectives, planning communication structure, and utilizing monitoring and reporting tools
- Collaborated with project coordinators on the implementation and technical support of an on-going multi-million-dollar software integration project during software development life cycle (SDLC) deployment phase
- Troubleshoot interfaces/scripts written in various programming languages (Java, Perl, CLI, etc.) and provided comprehensive customer-focused 3rd level technical support
- Proficient in writing SQL queries for database analysis to maintain data integrity and update client information
- Endpoint Connections: Established endpoint connections between software vendors and jail agencies using transport protocols (SFTP, FTP, TCP/UDP), and mapped IP addresses with an IP address manager (IPAM)
- Installed and updated software vendor configuration files for clients remotely through Bomgar, requiring firewall configuration with outbound TCP traffic
- Implemented booking system software changes for agencies across the United States, including Department of Corrections agencies
- Supported the deployment and utilization of VINELink products (VineLink and VineWatch), which provide updates and information on the status of criminal offenders

Web Developer and Server Manager Intern   November 2021 – May 2022
University of Louisville (UofL) – Louisville, KY

- Developed the Air Justice Louisville website in collaboration with Louisville Metro Government and Humana, as part of UofL's Public Health Literacy Advisory Group, focusing on air pollution in an underprivileged area of Louisville. Utilized HTML5/JavaScript for front-end development, administered Azure servers, developed Microsoft SQL databases, and conducted analysis of air quality and various demographic data for Louisville, mapping it via ArcGIS

Restaurant Waiter and IT Support Member   August 2019 – February 2020
Kansai Japanese Steakhouse – Louisville, KY

- Managed customer seating and reservations while utilizing IT skills to review and resolve technical difficulties of cash register, order system, and Wi-Fi configurations

HONORS & AWARDS

Dean Scholar's (4.0 Semester GPA)	Semesterly: December 2020 – May 2022
Betty and David Jones UofL Scholars	August 2021
Humana Foundation Scholars	May 2020
Outstanding Senior Award in Computer Information Systems	May 2022
Outstanding Graduate Award in Computer Information Systems	May 2022