

# JAMES W MCCOLL

## PROFESSIONAL SUMMARY

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IT professional and technology enthusiast with a passion for learning, solving problems, and conquering new challenges. Focused on information security and enterprise network architecture.

## EDUCATION

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**Arizona State University**  
B.S., Information Technology  
*Focus on Information Security*

Anticipated Graduation Date: 12/22  
GPA: 4.00 / 4.00

## CERTIFICATIONS

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- CCNA
- AWS Cloud Practitioner
- CompTIA Security+
- Microsoft 365: MDAA
- CompTIA A+

## TECHNICAL SKILLS

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- Python, Java, JavaScript, PowerShell, SQL, HTML5, CSS3
- Windows, Linux, Mac OSX, Cisco IOS, Check Point, AWS Cloud, IBM Watson
- Wireshark, Nmap, Nessus, Desktop Central, Sophos Central, VMWare
- IPv4, IPv6, TCP/IP Protocols, Cryptography, Host Hardening, Penetration Testing

## EMPLOYMENT EXPERIENCE

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**Reynolds and Reynolds, Houston, Texas**

**11/2020 – Present**

*IT Support Technician*

- Implements high security standards and audits authentication and access control within Microsoft Active Directory using PowerShell.
- Monitors computer security compliance by utilizing Desktop Central device management and Sophos Central anti-virus.
- Provides deployment and testing of new operating system images and applications utilizing the Microsoft Deployment Toolkit.
- Controls network traffic by applying rules and policies within Check Point firewalls.
- Configures and maintains Cisco networking equipment (switches and routers) including site-to-site VPN routers.
- Completed Windows Server 2019 File Server Migration from Windows Server 2008 without interruption of system availability.
- Works with team members to provide the best possible support and solutions for enterprise employees.

**TelaForce LLC., Honolulu, Hawaii**

**05/2018 – 08/2020**

*Telecommunications Analyst II*

- Programmed and configured all network equipment using the Cisco CLI to the required IP network specifications.
- Troubleshoot all aspects of network functionality, including Routers, Switches, Microwave Radio technologies, Wi-Fi, CATX cabling, and fiber cabling.
- Provided technical support through ServiceNow ticketing software.
- Created and updated documentation for standard procedures and configuration of network equipment.

**Lead Tower Technician**

- Managed a team utilizing efficient project planning to accomplish daily tasks and meet deadlines.
- Followed blueprints and specifications to ensure a high level of customer satisfaction.
- Completed testing of all fiber and copper cabling.
- Completed detailed project reports to be delivered to the customer.

**COURSE PROJECTS**

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**Aerospace Manufacturing SQL Server Database Modeling Project**

- Wrote complex SQL Queries to pull data to answer key questions to assist with the Aerospace Manufacturing process.
- Wrote all Data Definition Language (DDL) statements necessary to create the database and its tables.
- Created an Entity Relationship Diagram with 11 related entities.
- Normalized Database tables to the third normal form.

**Enterprise Network Modeling and Configuration**

- Implemented a secure network design within Cisco Packet Tracer using network segmentation and access control lists.
- Extensively modeled the use of network protocols (e.g., ICMP, DHCP, DNS, STP, HTTPS, TFTP, SCCP, RTP).

**Network Reconnaissance and Vulnerability Scanning**

- Performed network reconnaissance and vulnerability scanning on a virtualized enterprise network utilizing Wireshark, NetWitness Investigator, Nmap, and Nessus.

**Web Application Penetration Testing**

- Exposed and exploited common vulnerabilities of a test web application using Cross Site Scripting and SQL injection techniques.

**INDIVIDUAL PROJECTS**

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**AWS Hosted OpenVPN Server**

- Developed a tool to allow a secure connection between client devices and the hosted AWS Cloud network infrastructure.
- Installed and configured the OpenVPN server software on an AWS hosted Linux EC2 instance.
- Applied strong cryptography by using EasyRSA to generate authentication keys.
- Utilized SSH to securely transfer keys to the clients.

**AI Driven Speech-to-Speech Translation Program**

- Set up IBM Watson Speech service and connected with Python while utilizing Jupyter notebooks.
- Used Python to extract text from the JSON data and completed translation using the IBM Watson Translation service.
- Input translated text into the IBM Watson Text-to-Speech service to output the translated speech.