# Venkatesh Yerram

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## PROFESSIONAL SUMMARY:

- Professional Security Software Engineer with over 5 years of experience in cybersecurity frameworks, tools & incident response web application development.
- Architected secure solutions for insurance companies, developed intricate breach simulations.
- Worked on Enabling CI/CD with Azure Pipelines, GitHub Actions and Package management using Azure Artifacts for Build/Release Management.

## PROFESSIONAL EXPERIENCE:

**IT Security Intern | *UNCC*** **Aug 2022 - May 2023**
- TA for Secure program and penetration testing collaborated with the professor to develop 10+ course materials.
- Tutored the concepts on Network Security (Traceroute, DNS, Routing), Compliance, Cyber defense, and OWASP Top 10.
- Developed 10+ Semgrep scripts while conducting research and designed 4+ assignments to perform code reviews.

**Product Developer | iAssist Innovations labs** **Apr 2020 - Dec 2021**
- Developed 10+ Restful API to manage microservices for applications resulting in reduction of code redundancy by 50%.
- Developed a module using NLP to enhance the accuracy of Character Recognition (ICR & OCR) output, achieving a remarkable accuracy rate of over 90%.
- Implemented a queuing mechanism using Kafka in multi-threaded environment, reducing the overall CPU usage by 50%.
- Secured the server architecture by introducing secure authentication capabilities (SSO, Token-Based, Two Factor, Multi Factor), access control technique, safely protected 10+ applications.
- Developed an adaptable insurance claim automation for 20 hospitals, adopted by 500+ hospitals with 0% code change.
- Implemented secure CI/CD pipelines, automated SAST solutions, and reduced deployment time by 80%.
- Conducted regular assessments of TCP/IP protocol stack solutions, identified areas for improvement, and implemented changes to enhance network performance and security.

**Technical Analyst | *Manomay consultancy services*** **Nov 2017 - Mar 2020**
- Developed backend, front-end and led the software development team resulting in project delivery within 50% of expected timeline.
- Designed and Developed ETL pipeline in python, launched application, configured, revamped the database, utilizing NoSQL database instead of SQL improving the query response time by 40%
- Aided in designing 5+ application architectures and implemented security measures for the applications.
- Managed security of cloud infrastructure by creating and maintaining firewalls, Routing, switching for 5+ apps
- Collaborated with stakeholders & 5 developer teams to remediate, prioritize fixes & guidance on secure coding practices.

## TECHNICAL SKILLS:

**Programming Languages:** Python, C#, Java/J2EE, JavaScript, SQL, Shell scripting, PowerShell, jQuery, HTML, CSS.
**Frameworks:** .NET MVC, Django, Flask, Spring Boot, Angular.
**Database systems:** MySQL, NoSQL, SQL server, Oracle
**Tools:** Git, Jenkins, Selenium, Visio (UML), Microsoft Office, Jira, Nginx, Docker, Postman, Apache Tomcat, PySpark
**Cloud & Operating Systems:** GCP, Azure, AWS Dynamo DB, AWS S3, Cloudwatch, Microsoft Windows, Linux, MacOS.

## Certifications:

- SOC Level 1 & Offensive Pentesting – TryHackMe, CompTIA A+, CompTIA Security+ (Ongoing)

## Education:

**University of North Carolina at Charlotte**: Master of Science in Cyber Security **Jan 2022 - May 2023**
**Osmania University**: Bachelor's in computer science **Aug 2014 - May 2018**