# Harshitha Jonnalagadda

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## PROFESSIONAL SUMMARY

Cybersecurity-certified engineer (CISSP, ISC$^2$) with expertise in automating workflows using Python and Java, troubleshooting production systems in Linux environments, and optimizing performance through data analysis (SQL, Machine Learning). Experienced in building monitoring tools, developing CI/CD pipelines, and managing cloud infrastructure in Azure. Adept at enhancing system reliability, resolving outages, and ensuring high availability in mission-critical environments. Passionate about security, automation, and performance optimization.

## EDUCATION

**Binghamton University, State University of New York** - *Master of Science in Information Systems*
**KL University** - *Bachelors in computer science - specialization in Cyber Security*

## TECHNICAL SKILLS

**Security:** Threat Modeling, Secure Design Reviews, CISSP, CISM, CCSP, CompTIA Security+, Fortinet
**Compliance & Standards:** SOC 2, PCI-DSS, HIPAA, GDPR, ISO 27001, NIST (800-30, 800-53, 800-61, 800-63
**Programming:** Python, Bash, Java, SQL
**Cloud & DevOps:** AWS (preferred by Amazon), Azure, CI/CD Pipelines, Infrastructure as Code
**Tools:** Linux/Unix, Monitoring & Logging Tools, Power BI, Azure Data Lake
**Concepts:** Secure SDLC, Automated Security Controls, Internet Fundamentals

## PROFESSIONAL EXPERIENCE

**Binghamton University**                                                                                                    **August 2024 - Present**
*Information Systems intern*
- Analyzed large datasets to identify key business trends and optimize operational workflows, leading to a 20% improvement in efficiency.
- Applied statistical methods and data visualization techniques to uncover hidden insights and drive strategic decision-making.
- Developed and tested various machine learning models to support data-driven decision-making, aligning insights with organizational goals.
- Ensured data accuracy and compliance, implementing automated data validation checks and standardized reporting procedures.

**Machint Solutions**                                                                                                        **June 2020 - May 2022**
**Cyber Security Analyst**
- Automated log analysis and threat detection in Azure Linux environments using Python, cutting detection time by 40%.
- Integrated SQL and Azure Data Lake telemetry with SIEM tools for real-time alerts, improving incident response by 15%.
- Built compliance auditing tools to validate system baselines, increasing adherence to CIS/NIST standards by 30%.
- Embedded security controls and SAST into CI/CD pipelines, enabling shift-left security and secure code delivery.

## PROJECT EXPERIENCE

**Phishing Detection System Using Data Mining**
- Built a phishing detection system using regex patterns to classify emails, achieving 88.79% accuracy in identifying phishing attempts.
- Applied data mining techniques to detect suspicious keywords, enhancing email security and reducing malicious attacks.
- Visualized results using bar charts to analyze phishing and fraud detections, providing clear insights into model performance.

**Credit Card Fraud Detection Using Machine Learning**
- Developed a fraud detection system using machine learning to identify fraudulent transactions from 300,000 anonymized records.
- Addressed class imbalance with SMOTE, achieving 100% fraud detection using a Neural Network with low false positives.
- Compared models like Random Forest and Decision Trees, with Random Forest outperforming in accuracy and scalability.

## CERTIFICATIONS

Databases & SQL | Azure AI | Certified Information Systems Security Professional (CISSP)$^R$ | Certified Information Security Manager (CISM)$^R$ | Certified Cloud Security Professional (CCSP)$^R$ | CompTIA Security+ 701 | Cybersecurity (ISC)$^2$ | Networks and Communications Security (ISC)$^2$ | Fortinet Certified Associate in Cybersecurity