

# Ravi Rajappa

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## EDUCATION

**Master of Science in Computer Science (Cybersecurity), Arizona State University (GPA: 3.93/4)**

Aug 2023 – May 2025

Coursework: Data Visualization, Data Mining, Data Processing at Scale, Applied Cryptography, Software Security, Software Design

**Bachelor of Engineering in Computer Science, Visvesvaraya Technological University**

Aug 2016 – Aug 2020

## TECHNICAL SKILLS

**Programming/Technologies:** Python, JavaScript, TypeScript, Java, SQL, HTML, CSS, Docker, AWS, Git, TeamCity CI/CD, REST API, Postman, Apigee, Infrastructure as Code

**Security & IAM:** CyberArk PAM, IAM, NIST, ISO, SSO, Azure AD, LDAP, Okta, OAuth 2.0, JWT, OIDC, SAML 2.0, Wireshark, Linux

**Frameworks/Databases:** React JS, Node.js, Express.js, D3.js, Django, MySQL, PostgreSQL, Flask, Selenium, FastAPI

**Certifications:** AWS Certified Developer – Associate, CyberArk Trustee

## WORK EXPERIENCE

**Application Development Intern, OneDrug**

Jun 2024 – Aug 2024

- Automated data collection and integration drug-genotype guidelines through Selenium automation and Python, resulting in a 50% decrease in manual data collection.
- Architected a scalable PostgreSQL database model, resulting in optimized data storage and cross-referencing, and a 40% increase in retrieval speed.

**Software Engineer Identity Access Management, General Electric**

Mar 2021 – Jul 2023

- Engineered automated solutions to **modernize internal identity management processes** by collaborating with cross-functional teams, including migration, development, and testing, by leveraging AWS and Node.js, resulting in a 60% reduction in code complexity.
- Designed and implemented an **automated CyberArk Privileged Access Management framework**, leveraging **AWS, CI/CD**, decreasing PAM service execution time and failure rate by 85%.
- Automated **AD user provisioning/deprovisioning** via PowerShell & AWS Lambda, cutting **manual IAM tasks by 40%** and **enforcing RBAC**.
- Architected a housekeeping portal with AWS infrastructure to centralize identity management workflows, refining compliance for Quarterly Access Reviews as measured by audit success rates

**Software Engineer Co-op, General Electric**

Oct 2020 – Mar 2021

- Deployed a micro-service with AWS Lambda and SQS to manage **16,500 decommissioned CyberArk accounts, ensuring SOX compliance** and expediting audit processes.
- Executed CyberArk system upgrade impacting **10000+ privileged accounts**, ensuring zero downtime and enhancing security compliance by **20%**, minimizing operational risks.
- Earned the **CyberArk Trustee Privilege Access Management Certification**.

## PROJECTS

**Performance and Risk Data Visualization in Formula 1**

Aug 2024 – Dec 2024

- Visualized Formula 1 data dynamically using D3.js and React.js, showcasing patterns and trends for further analysis.
- Enhanced data preprocessing with Python scripts, enabling integration of multi-source datasets for visualization.

**Predicting Social Media Engagement Metrics**

Aug 2024 – Dec 2024

- Designed an ML model combining BERT embeddings and BlueSky post features, increasing prediction accuracy for likes by 12%.
- Optimized Random Forest models for BlueSky engagement patterns, reducing RMSE by 15% by hyperparameter tuning.

**Enhancing Industrial Supply Chain Security using AI and Blockchain**

Jan 2024 – May 2024

- Conducted research on blockchain and AI integration, proposing solutions to mitigate security vulnerabilities in industrial supply chains.
- Assessed AI and blockchain's potential for anomaly detection, identifying solutions to boost disruption response times by 50%.

**Object Detection Using YOLO**

Aug 2023 – Dec 2023

- Engineered a video object detection system using YOLOv3 and motion vector-based enhancements, minimizing system latency for real-time video analysis.
- Streamlined data processing by integrating cropped image detection, achieving a 30% improvement in computational efficiency.

## ACHIEVEMENTS

- Winner of Zoom AI Spark Hackathon hosted at Arizona State University
- Adobe Student Ambassador at Arizona State University
- Winner of Prompt Engineering Hackathon hosted at Arizona State University

Feb 2025

Nov 2024

Oct 2023