

# HARSHITHA GOWDA RAJKUMAR

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## EDUCATION:

**Master's in Information Technology Security** | GPA – 3.86/4

*Expected May 2026*

Arizona State University, USA

**Bachelor of Technology in Computer Science and Engineering**

*August 2020 - July 2024*

Presidency University, Bengaluru, India

## SKILLS:

- **Programming & Scripting:** C, Java, C#, Python, HTML, CSS, PHP, JavaScript.
- **Security & Networking:** IAM, Vulnerability Assessment, Penetration Testing, Incident Response, Access Control, Network Security (TCP/IP, DNS, LAN/WAN), NIST CSF, Burp Suite, Splunk, Wireshark, PingPlotter.
- **Software Engineering:** Object-Oriented Programming, SDLC (Agile, Waterfall), Debugging, Project Management.
- **Cloud & DevOps:** AWS (EC2, S3, RDS, ALB, IAM, KMS, VPC), Docker, CI/CD, DevOps, Cloud Computing, Linux.
- **Tools & Frameworks:** MySQL, .NET, Android Studio, Github, Cloudera.
- **Certifications:** Google Professional Cybersecurity, AWS Academy Cloud Architecting.

## PROJECTS:

### AWS Cloud Infrastructure Deployment:

*January 2025 – April 2025*

- Migrated a full-stack PHP and MySQL app to AWS using **EC2, RDS, and ALB**, improving availability and fault tolerance.
- Implemented **Auto Scaling, VPC with subnet isolation**, and **CloudWatch** monitoring for cost optimization and system resilience.
- Secured the environment with **IAM policies, SSM Parameter Store, KMS encryption**, and restricted **SSH access**.

### IT Asset Management System:

*August 2024 – December 2024*

- Engineered a cloud-based IT asset management system with **tracking and automation**, reducing discrepancies by 30%.
- Integrated enterprise security features such as **SSO, 2FA, and RBAC** for enhanced compliance and security.
- Optimized data analytics to improve **budgeting accuracy by 25% and operational efficiency** through intelligent asset lifecycle management.

### System Software Debugging & Network Security:

*March 2024 – May 2024*

- Conducted **deep packet analysis using Wireshark and Linux-based systems** to identify vulnerabilities, reducing security risks and improving overall network resilience against denial-of-service and man-in-the-middle attacks.
- Optimized database queries to **enhance processing speeds by 60%, doubling transactional efficiency**.
- Diagnosed **network latency** issues using PingPlotter, improving system performance and service reliability.

### Hospital Finder- Secure Web Application:

*August 2023 – January 2024*

- Directed the **end-to-end development** of an innovative app for patients that decreased average appointment booking time by 25%, leveraging technologies such as PHP, CSS, JavaScript, and Android Studio, integrated **CI/CD pipelines** for streamlined deployment, and ensured robust database management via MySQL.
- Led hybrid **Agile-Waterfall development**, resolved key integration conflicts, and implemented two-step verification to strengthen application security. Prevented potential data breaches through targeted **penetration testing and vulnerability assessments**.
- M. V. S. Reddy, V. S., H. G. Rajkumar, S. V. G., and Dr. S. K., "Hospital Finder: A Web Application for Efficient Appointment Booking and Access to Medical Services," *International Journal for Research in Applied Science and Engineering Technology*, vol. 12, no. 4, pp. 57912, Apr. 2024. DOI: [10.22214/ijraset.2024.57912](https://doi.org/10.22214/ijraset.2024.57912).

## VIRTUAL INTERNSHIPS & SIMULATIONS:

- **Cybersecurity Analyst – TCS & Mastercard (Forage)**

*June 2025*

Gained hands-on experience in **identity and access management (IAM), phishing threat detection, and enterprise-wide security awareness** strategy. Collaborated with consulting teams, delivered technical documentation, and aligned cybersecurity practices with business risk priorities.

## LEADERSHIP:

- **Graduate Service Assistant** for the subject Database management systems.

*January 2025 – May 2025*

- **INNVOTEX Competition:** Full Throttle & Maze runner | ESP8266

*February 2023 – April 2023*