

Yogesh Botcha

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SUMMARY

I'm a graduate student with hands-on experience across software development, AI, and security engineering. Proficient in Python, Java, SQL, and full-stack frameworks (Spring Boot, Angular) for building secure, data-driven applications. Experienced in risk assessment, control testing, and system monitoring in the fintech and higher-education domains. Contributed to the fine-tuning of the AI/ML model, data preprocessing, and LLM evaluation for academic and research projects. Dedicated to bridging software engineering, cybersecurity, and artificial intelligence to deliver practical, scalable, and resilient digital solutions.

EDUCATION

Columbus State University

Master of Science in Cybersecurity

Columbus, GA

August 2024 – May 2026

Coursework: Network Security, Cybersecurity Risk Management, Digital Forensics, Network And Cloud Management, Operating Systems, Software Product management

CMR Technical Campus

Bachelor of Technology in Mechanical Engineering

Hyderabad, India

July 2018 – August 2022

Coursework: C Language, Database Management Systems, Auto-CAD, Remote Sensing

TECHNICAL SKILLS

Risk and Audit: Internal Audit Methodology, Risk Identification and Analysis, Control Testing, Continuous Monitoring, Issue Reporting, RCSA, NIST RMF, STRIDE

Analytics and Software: Excel (PivotTables, PowerQuery), SQL, C++, Java, Full-Stack, React, Typescript, HTML, CSS, Angular, Spring-boot, Python (pandas), Tableau, Splunk, ELK Stack, Wireshark, Hashcat, DataStudio, RedShift.

Infrastructure and Security: Linux, VMware, Docker, Active Directory, Varonis, Ansible, Terraform, CI/CD

Certifications: Java Full Stack, CompTIA Security+, Cisco Junior Cybersecurity Analyst, AWS Cloud Practitioner, Azure Fundamentals, TryHackMe Cybersecurity 101, TryHackMe Pre-Security

EXPERIENCE

Columbus State University

Student Research Assistant

Columbus, Georgia

Oct 2025 – Present

- Collaborated on a cybersecurity research project focused on advanced network intrusion detection methods.
- Developed and evaluated techniques to enhance system resilience against obfuscation and chaff-based evasion.
- Engaged in rigorous testing and analysis to ensure the effectiveness of proposed solutions.
- Contributed to a research team at Turner College, a respected institution in Columbus, Georgia.

Columbus State University

Graduate Administrative Assistant

Columbus, Georgia

Jan 2025 – Present

- Analyzed academic-program datasets (5K+ records) using Excel (PivotTables, Power Query) and Python (pandas, NumPy) to identify operational risks, data-quality control gaps, and compliance issues; improved reporting cycles by 15 percentage.
- Built interactive KPI dashboards in Tableau Power BI for 4 academic departments, automating performance and compliance monitoring, and reducing manual reporting time by 20 hours/month.
- Developed process-flow diagrams and risk-control matrices in Visio Lucidchart, aligning CSU's annual program reviews with NIST RMF and accreditation standards.
- Contributed to university AI/ML research projects by cleaning datasets, fine-tuning Large Language Models (LLMs), and experimenting with image-generation models for academic branding, applying data preprocessing, tokenization, and model training workflows.

Kyndryl

Technical Support Analyst - Senior Agent

Hyderabad, India

Oct 2023 – June 2024

- Resolved 250+ high-severity cybersecurity and network incidents using Splunk, Wireshark, ELK Stack, and ServiceNow, achieving a 95 percentage first-touch resolution rate and reducing repeat issues by 20 percentage.
- Conducted advanced network troubleshooting (TCP/IP stack analysis, packet inspection, VPN connectivity), ensuring SLA compliance and minimal downtime across enterprise IT environments.
- Authored knowledge-base articles, SOPs, and control-validation checklists for incident response teams; documentation was adopted by 30+ analysts, supporting ISO 27001 audit readiness.

Shanti Switchgears Private Limited

Software Developer

Hyderabad, India

Jun 2022 – Jun 2023

- Designed and optimized Java/Spring Boot microservices with secure APIs, ensuring resilience against OWASP Top 10 vulnerabilities (SQL injection, CSRF, XSS).
- Implemented backend logic with MySQL + Hibernate ORM, debugging complex code to ensure reliability under high-load conditions.
- Partnered with cross-functional teams to integrate authentication and access controls, applying OAuth2 and JWT tokens to enhance application security.
- Deployed services in Docker containers and monitored with Nagios/Zabbix, gaining exposure to DevSecOps practices and continuous delivery pipelines.

Decathlon Sports India

IT Intern

Hyderabad, India

Jun 2019 – Nov 2021

- Assisted in the maintenance and User Acceptance Testing of internal retail management systems, identifying UI/UX bugs and functional inconsistencies prior to regional rollouts.
- Provided technical troubleshooting for the Decathlon App and POS software, collaborating with the regional dev team to resolve software-side issues and enhance customer checkout flow.
- Utilized SQL to perform data validation and audits on local inventory databases, ensuring 100 percent data integrity between store-level operations and central servers.

PROJECTS

AI Voice Agent | Personal Project

- Built an intelligent voice agent integrating speech recognition, language generation, and text-to-speech modules with custom voice cloning for real-time, natural human-AI conversations.

Risk Management and Compliance Strategy for Uber Operations | Term Project

- Conducting a risk assessment on Uber's ride-sharing operations, identifying vulnerabilities in driver safety, fraudulent bookings, and compliance gaps, and developed mitigation strategies using NIST RMF and STRIDE modeling.

Network Security Monitoring | Personal Project

- Deployed and configured SIEM tools (e.g., Splunk, ELK Stack) to monitor and analyze network traffic for potential security threats. Created custom dashboards to visualize attack patterns and implemented automated alerting for anomalies.

Daily Schedule Tracker Website | Personal Project

- Built a web-based task and schedule management system using Java and frontend technologies to help users organize daily activities with persistent database storage. Designed intuitive interfaces and backend services that support CRUD operations and smooth workflow management.

WorkOnWheels (WOW) | Personal Project

- Designed a website for bike and car service bookings for users unable to visit garages. Utilized Java, Angular, HTML, CSS, and Spring Boot to create a user-friendly experience. Implemented efficient scheduling and booking systems to streamline the service process.

EXTRACURRICULARS

- President, India Club at CSU (Fall 2024 - Present).
- E-Board member, International Club at CSU (Fall 2024 - Present).
- Joint Secretary and Dance Choreographer, Akriti Cultural Club, CMRTC.
- Junior Secretary, Mechanical Engineering Students Association, CMRTC.