DHWANIT SAMIR PANDYA

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TECHNICAL SKILLS

- **Programming languages:** C++, Python; **Scripting languages:** PowerShell, Bash
- **Big Data Technologies:** Apache Spark, Hadoop; **Database:** SQL (MySQL, PostgreSQL), MongoDB
- **Web Development:** HTML, CSS, JavaScript, React.js, Next.js, Flask; **Operating Systems:** Windows, Linux, MacOS
- **DevOps & CI/CD Tools:** Docker, Kubernetes, Terraform, Ansible, Chef, Jenkins, Git, GitHub
- **Tools:** Visual Studio, Wireshark, Splunk (SIEM), VMware, Kali Linux, Microsoft Excel, Word, Outlook

CERTIFICATIONS

- CompTIA Security + (In Progress, Expected June 2025)
- AWS Certified Cloud Practitioner, AWS, April 2024

WORK EXPERIENCE

Senior Analyst, Technology Consulting – Cybersecurity　　　　　　　　　　　　　　**July 2023 – April 2024**
Ernst & Young (EY)

- Assisted in security gap analysis, security assessments for a leading financial institution, **identifying 20+ misconfigurations** in security controls, **mitigating organization's security risk exposure by 30%.**
- **Evaluated 15+ network security controls** across DLP, IPS, EDR, IDS, and Firewall solutions, applying knowledge of networking protocols to strengthen secure data flows, leading to a **70% reduction in identified security risks**.
- Collaborated with client stakeholders and security analysts on vulnerability management and remediation efforts, providing actionable recommendations that were integrated into security playbooks, **reducing business impact by 30%.**
- Developed Python scripts for **automating security operations**, improving vulnerability scanning and **reducing manual intervention by 40%**.
- Developed and documented information security policies and procedures for clients, achieving a **65% improvement in compliance** with the **NIST CSF, PCI DSS, CIS** industry standards and regulatory requirements.
- Reviewed code using Security Tools tools such as SonarQube, identifying vulnerabilities, and improving code quality, **resulting in a 25% increase in code security** by enforcing secure coding standards and reducing risks before deployment.

PROJECTS

BackOps.AI

- Led a team of 4 to develop an **AI-powered assistant to automate backend database operations**, based on a case provided by **ServiceNow** during the **55-hour Luddy Hackathon 2024 at Indiana University's Luddy School**.
- Applied development best practices to integrate NLP, real-time analytics, an audit trail, and a user-friendly web application, resulting in a **20% improvement in system efficiency**.
- Leveraged FastAPI, ChatGPT-4, SQLite, HTML, CSS, JavaScript, and Git, **reducing development time by 15%** and streamlining deployment processes
- **Secured 1st place in the 2024 Luddy Hackathon, competing alongside 72 teams.**

Automobile Accident, Prevention, Detection, Reporting System, and Communication using Li-Fi Technology

- Designed an automotive accident prevention, detection, and reporting system using ReactJS, Flask, and TensorFlow, which utilized Li-Fi technology to enable communication between two cars at a remarkable speed of over 200Gbps, aiding in the prevention of accidents caused by human error by reporting to the nearest emergency station.
- Utilized Cloud Firestore, Vercel, and Git, **improving system scalability and deployment efficiency by 30%**, with faster integration and version control processes.
- **Secured 1st place in DJ SPARK 2022**, a national-level competition organized by IETE-SF, for this project; received departmental commendation and published a research paper in the event proceedings.

EDUCATION

Indiana University Bloomington, Indiana, United States　　　　　　　　　　　**August 2024 - May 2026**
Master of Science, Computer Science　　　　　　　　　　　　　　　　　　　　　　　　　**(GPA – 3.95/4)**
　　Relevant Coursework: Applied Algorithms, Applied Machine Learning, Software Engineering, Cloud Computing

Dwarkadas. J. Sanghvi College of Engineering, Mumbai, India　　　　　　　　**August 2019 - June 2023**
Bachelor of Technology in Electronics and Telecommunication　　　　　　　　　　　　　**(GPA – 3.84/4)**
　　Relevant Coursework: Computer Networks, Internet Engineering and Network Security, Big Data Analytics, DBMS, Data Encryption, Object Oriented Programming, Data Structures and Algorithms

EXTRACURRICULAR ACTIVITIES

- Participated in **CTF** challenges at BSides Bloomington Cybersecurity Conference 2024, **solving 80% of challenges** and gaining insights while networking with industry professionals.
- Replicated real-world SOC operations by triaging security alerts, analyzing logs, and investigating security incidents using **TryHackMe** and **LetsDefend**, gaining hands-on experience in incident response, threat intelligence, and vulnerability management.