

## SUMMARY

Motivated Master's student in Software Engineering with a specialization in Cybersecurity, seeking a software developer role that leverages strong security expertise. Proficient in core cybersecurity principles and secure coding practices, with a solid foundation in IT systems, software development, and programming.

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## EDUCATION

<b>Master of Software Engineering, Cybersecurity Major</b> Arizona State University	Graduating December 2025 3.23 GPA
<b>Bachelors of Technology in Electronics and Communication Engineering</b> Guru Nanak Institute of Technology	May 2022 8.68 GPA

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## SKILLS

**Programming Language:** Python, C, C++, Java, HTML, CSS, JavaScript, JSON, C#, NodeJS, SQL, NoSQL, Kotlin, Swift

**DevSecOps:** CI/CD Pipelines (GitHub Actions, Jenkins), Docker, Docker Compose, Kubernetes, Vulnerability Management, Secure Code Practices

**Cybersecurity** Network Security, Malware Analysis, Reverse Engineering, Phishing Detection, Nmap, ELK Stack, Wire-shark, Netcat, SIEM, Splunk, Asset management, Risk Assessment, Software Authorization Rule Management, EASM.

**Tools:** AlienVault OTX, Gradle, Git, GitHub, JUnit 5, Bash, .

**Frameworks & Libraries:** Burp Suite, Terraform, Pandas, Scikit-learn, Google Firebase, OWASP Top 10.

**Cloud Technologies:** Heroku, AWS, PythonAnywhere, GCC, Snowflake, Azure Sentinel, Kibana.

**Others:** Microsoft Office, Microsoft Outlook, Google Workspace.

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## PROFESSIONAL EXPERIENCE

Wipro West Bengal, India. <i>Project Engineer</i>	May 2022 – Aug 2023
<ul style="list-style-type: none"><li>Developed SQL queries for data manipulation in Snowflake, enhancing workflow efficiency by 15% and enabling clients to access accurate and precise data streams quickly.</li><li>Trained employees new to Big Data and data warehouses on using ETL tools and performing various operations on Informatica Cloud.</li><li>Volunteered to foster skill development in project roles, focusing on essential skills such as SQL, office portal navigation, ticket raising, and effective communication with the IT department. Facilitated seamless team integration and improved workflow efficiency by 20%.</li></ul>	

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## PROJECTS

<b>Phishing Domain Detection System (Personal Project)</b>	Spring 2025
<ul style="list-style-type: none"><li>Developed a Python-based system to identify and report phishing domains using real-time threat intelligence from the AlienVault OTX API.</li><li>Automated daily threat data collection with cron jobs, achieving consistent updates and analysis.</li><li>Reduced manual investigation time by 80% and improved phishing detection accuracy through structured JSON parsing and secure data handling.</li></ul>	
<b>Java Based Scrum Simulator, Class Project</b>	Fall 2024
<ul style="list-style-type: none"><li>Developed a simulator to model Agile Scrum workflows using Java and Spring Framework, emulating sprint planning, task progression, and team velocity.</li><li>Implemented state-based logic to track story states and sprint cycles, reinforcing agile principles through hands-on system behavior modeling.</li></ul>	
<b>Intrusion Detection System using AI and ML (Class Project)</b>	Fall 2024
<ul style="list-style-type: none"><li>Collaborated in a team of 8 to design a system that would take the help of an AI to detect attacks. We learned how to automate tasks and create a model system to detect threats using AI and ML.</li><li>Applied reinforcement learning with deep-Q-learning that helps us achieve an accuracy of 99% for Normal(Benign), DDoS, and DoS attacks.</li></ul>	
<b>SIEM Deployment – Elastic Stack – SOC Lab Component, Home Lab (Personal Project)</b>	Fall 2024
<ul style="list-style-type: none"><li>Configured an Elastic Stack-based SIEM as part of a custom-built SOC lab to centralize security event monitoring and analysis.</li><li>Deployed a Kali Linux VM and Elastic agents to collect and forward system logs.</li><li>Designed and validated alert rules to detect suspicious activity, demonstrating hands-on skills in log management, incident response, and threat detection.</li></ul>	