

Arvindraj Ramesh

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EDUCATION

Jeppiaar Institute of Technology

Chennai, India

Bachelor of Engineering - Computer Science and Engineering; Current CGPA: 7.74

Oct 2022 – Current

Lords Universal Jr College of Commerce and Science

Mumbai, India

HSC – Science with CS; GPA: 7.7

Feb 2020 - May 2022

SKILLS SUMMARY

- **Languages:** C, Python, Java, SQL
- **Frameworks:** Pytorch, TensorFlow, Langchain, Langgraph, Numpy
- **Tools:** Git & GitHub, Kali Linux, Jupyter Notebook, VS Code, PyCharm, Notion, MS Office Suite
- **OS:** Windows, Linux (Ubuntu/Kali)
- **Platforms:** Visual Studio Code, PyCharm, Jupyter Notebook
- **Soft Skills:** Time Management, RAG Implementation, Agent Development

WORK EXPERIENCE

Cybersecurity Engineer INTERN | Auriseg | [LINK](#)

August 24 – Nov 25

- Performed vulnerability assessments and penetration testing (VAPT) on internal networks and web applications, identifying and documenting critical security issues to strengthen overall posture.
- Streamlined vulnerability triage and reporting workflows using automated tools (e.g., Nessus, Burp Suite), reducing remediation cycle time by 20% and improving operational efficiency.
- Developed and deployed process enhancements and basic automation scripts (e.g., Python/Bash) to assist in routine security scans, boosting team productivity by 15%.
- Collaborated with 3+ cross-functional teams (IT, development, compliance) to gather technical details, define testing scopes, and align security assessments with organizational goals.
- Created 15+ detailed reports and executive-level presentations highlighting VAPT findings, risk ratings, and remediation suggestions, ensuring clarity for both technical and non-technical stakeholders.

PROJECTS

CyberStrike | [LINK](#)

- A web application pentest automation framework.
- Has capabilities to run and execute tools like Nmap, Metasploit and Curl in kali linux.
- Work on cyberstrikev2 is ongoing which uses langgraph framework, if interested to know more, kindly contact me.

ShortcutGesture: Hand Gesture Recognition + Shortcut Automation | [LINK](#)

- Built a real-time hand gesture recognition system using OpenCV and a custom-trained FCN model.
- Created and labeled a custom dataset ("ShortcutGesture") for gesture classification.
- Mapped detected gestures to system shortcuts like app launching and media control.
- Optimized model performance for fast inference and reliability under diverse conditions.
- Enhanced model accuracy using data augmentation and image preprocessing techniques.

XSS and SQL Injection Demonstrator | [LINK](#)

- Developed a vulnerable web application to simulate XSS and SQL injection attacks for hands-on learning.
- Included multiple test pages where users can input payloads and observe outcomes in real time.
- Promoted security awareness and secure coding practices through guided demonstrations.

Arvindraj Portfolio | [LINK](#)

- Designed and built a custom personal portfolio website using HTML, CSS, and JavaScript.
- Highlighted personal projects, skills, and contact information with a clean UI.

Phishing_ex | [LINK](#)

- Created a phishing simulation page replicating a typical login form for demonstration purposes.
 - Used in security training to show how credentials can be harvested in phishing attacks.
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CERTIFICATES

Google IT Automation with Python Specialization (Google) | [CERTIFICATE](#)

October 2024

- Gained hands-on experience with Python scripting, automation, and using Git and GitHub for version control.
- Automated tasks in real-world scenarios, including log parsing and file operations to improve efficiency.

Google Cybersecurity Specialization (Google) | [CERTIFICATE](#)

March 2024

- Developed foundational knowledge of cybersecurity tools, network defense, risk management, and incident response.
- Built skills to assess and mitigate security threats across systems and applications.

Google AI Essentials (Google) | [CERTIFICATE](#)

October 2024

- Gained introductory knowledge of AI and machine learning concepts and their ethical implications.
- Explored real-world use cases of AI in industry and business environments.

Introduction to Packet Tracer (Cisco) | [CERTIFICATE](#)

September 2024

- Developed hands-on networking skills using Cisco Packet Tracer simulation tool.
 - Learned to visualize, build, and troubleshoot network topologies virtually.
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ACHIEVEMENTS AND WORKSHOPS

- **HackerRank:** Achieved **Silver Rank** in both **Python** and **C++** skill tracks.
 - **TryHackMe:** Completed **30+ hands-on cybersecurity rooms**, including CTF challenges and real-world scenarios.
 - **SkillRack:** Solved **1200+ coding problems** across multiple programming languages, enhancing algorithmic thinking and code fluency.
 - **IGNITE: Develop Games, Build Your Career** – Participated in a 2-day game development workshop organized by Monolith Research & Training Labs.
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TRIVIA

- **Interests:** Software Development, Cybersecurity, Computer Networking, Emerging Tech (AI, AR/VR, Space)
 - **Languages:** Hindi (Proficient), English (Proficient), Tamil (Basic)
 - **Hobbies:** Tech enthusiast, PC gaming, exploring new tools, DIY automation
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