

# Gapilesh Pirabakaran

Software Engineering Undergraduate



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## Profile

I'm a highly motivated Software Engineering undergraduate with a strong passion for cybersecurity. Proven skills in web development and a solid foundation in network security, ethical hacking, and risk management. Eager to apply expertise to a challenging cybersecurity role. Experience includes implementing WordPress security best practices and developing a cybersecurity awareness blog website.

## Professional Qualification

- **Network Administration and Cybersecurity Certificate Program** (2024)

A CPD-certified 5-month program with hands-on experience, organized by the Professional Development Unit of the IIT.

- **Network and System Security:** Routers, Switches, Firewalls, VPNs, Network Monitoring, Cloud Computing, Virtualization.
- **Cyber Threats and Defense:** Ethical Hacking, IDS/IPS, Malware Analysis, and Anti-malware Programs.
- **Identity and Access Management:** User Authentication, Access Controls, CIA Triad.
- **Risk and Compliance:** Incident Response, Disaster Recovery, Business Continuity, Data Protection and Privacy Laws.
- **Automation and Emerging Tech:** Bash Scripting, Internet of Things (IoT), Cryptography.

- **LinkedIn Learning E-Certificates**

The Cybersecurity Threat Landscape (2024), Networking Foundations: Networking Basics (2024), Cybersecurity Careers and Certifications (2024), WordPress: Building a Secure Site (2023), Cybersecurity Foundations (reading) (2025).

- **Certified in Cybersecurity (CC)** (Reading)

Currently a candidate and a self-paced learner for the entry-level CC exam by (ISC)<sup>2</sup>.

- **Security Principles** - Information assurance, Risk management processes, Security controls, Governance elements and processes, and the ISC2 Code of Ethics.
- **Incident Response, Business Continuity and Disaster Recovery** - Incident Response Goals, IR Team, Incident Response Plan, Business Continuity Plan, Goals and Actions, Disaster Recovery Plan, Goals, and Actions
- **Access Control** - Defense in Depth, Privileged Access Management, User Provisioning, Physical Access Controls, Logical Access Controls.

## Experience

- **Intern WordPress Web Developer** - At Creoz360 (June 2023 - May 2024)

- Maintained **documentation and coding** best practices for building and deploying live and staged websites.
- Researched and prepared a "**WordPress Security Best Practice**" document to maintain employee awareness.
- Contributed to website **backups**, added **security plugins**, and integrated **Honeypots** to filter out hundreds of spam leads
- Implemented and enforced **Least Privilege** access control mechanisms to enhance website security.
- Communicated and collaborated with multiple teams such as the SEO, Email Marketing and Project Management teams.
- Troubleshooted and consulted on website-related issues with other teams, and raised reports to higher levels.
- Worked in an **Agile workflow** environment with monthly sprints and weekly standup meetings.
- Conducted website speed tests, and bug fixes, optimized the website's performance and maintained above 80% monthly.
- Built 20+ **responsive mobile-friendly websites** using, Elementor, WP Bakery Builder and King Composer builders.
- Integrated **Salesforce** lead generator and **Google Analytics connector** on websites.
- Quickly adapted and completed projects on Duda and other similar platforms to meet client requirements.

- **Freelance Web Developer** (2023 - 2024)

- Developed a **Cybersecurity blog website** called "CysecCoach", and researched and contributed to the blog posts on topics such as phishing prevention, password management, and cyber threat histories like NotPetya.
  - This is a non-profit, awareness-spreading website to educate cybersecurity best practices and avoid digital frauds and scams, especially targeting people without an understanding of modern technologies and their digital assets.
- Worked with local and international clients on web development, problem-solving and consulted on security concerns.

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## Projects

- **Final Year Research Project** - At Informatics Institute of Technology (2024 - current)

The objective of this research is to develop a **continuous authentication system using behavioural biometrics** (keystroke dynamics and eyeblink patterns) to mitigate risks like session hijacking and insider threats. This system will utilize machine learning algorithms to analyze and model unique user behaviours, providing real-time verification and adaptive security throughout the user's session.

- **Personal Git Projects** - In GitHub (current)

Ethical Hacking (Network Analysis and Steganography), Machine Learning, and Web Development projects.

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## Academic Qualification

**Bachelor's Degree** - At Informatics Institute of Technology (2021 - 2025)

Currently enrolled in a BEng (Hons) Software Engineering degree at the Informatics Institute of Technology, affiliated with the University of Westminster, UK.

- **Relevant course works:** Cybersecurity, Final Year Research Project (Deep Learning, Machine Learning), Internet of Things (IoT), Programming and Databases.

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## Tools

- **Security Tools:** Nmap, Wireshark, Ettercap, Whois, Metasploit, Dnsenum
- **Operating Systems:** Windows (XP,7,10,11), Kali Linux, Ubuntu, OWASP
- **Virtualization:** Virtual Box, VMware, Proxmox, Browser Stack
- **Other:** WordPress, Docker, FTP (FileZilla), GitHub Code Space, Salesforce, Google Collab, Figma, Adobe, Canva, MS Office

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## Core Values

- Honest • Quick Learning
- Team Player • Loyal
- Attention to Details
- Strong Communication
- Problem-solving
- Critical-Thinking

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## Technical Skills

- Bash Scripting • Python • Network Administration • Ethical Hacking • PHP
- MySQL • JavaScript • Java • OOP • GitHub • HTML • CSS • Data Science

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## Language

English 

Tamil 

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## Extra-curricular

- Continuous learning: Hack the Box, LinkedIn Learning.
- SDG G17 - University Student Ambassador advocating No Poverty (2024)
- SEF Scholar X program - Mentored by a Cybersecurity Doctorate (2023)
- Guest speeches at IIT on Professional Development (2023)
- Participation in Conferences, Workshops and Competitions:  
Future Fusion (2024), Google I/O (2023), Cloud Native Kubernetes (2023), Salesforce Conference (2023), Microsoft Students Champs Workshop (May 2024), WSO2's Ballerina Workshop (2023), and IEEE Extreme 17.0 (2023)

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## References

**Mr. Guhanathan Poravi**

Senior Lecturer at Informatics Institute of Technology

**Mr. Shamil Samaraweera**

Team Lead - Web Development and Delivery at Vetstoria

*Referees' contact details will be provided upon request.*