

# Bivin Joseph

+61 412260241 ● bivinjoseph121@gmail.com ● [bivin.vercel.app](#) ● [LinkedIn](#) ● [GitHub](#)

## EDUCATION:

<b>Deakin University, Australia</b> Master of Cyber Security(Professional)	2025-present
<b>Vellore Institute of Technology, Vellore, India</b> B.Tech in Computer Science Engineering with specialization in Information Security	2020-2024

## SKILLS:

- **Programming Languages:** Java, C, Python, Swift, HTML5, CSS, JavaScript, PHP, SQL
- **Tools & Technologies:** Nmap, Metasploit, Nessus, Burpsuite, Kali Linux, Splunk, Wireshark, Vulnerability & Penetration testing, SOC, Ethical Hacking, Cryptography & Encryption, Networking, Firewall & Proxy.

## PROJECTS:

### Ultimate Cybersecurity Homelab

- Configured a cybersecurity homelab with multiple targets (Metasploitable2, Ubuntu with DVWA, Windows) for penetration testing.
- Implemented network security using pfSense firewall and OpenVPN, monitored with Splunk, and conducted simulated attacks using Kali Linux.

### Graphical Password Authentication System

- A hybrid authentication scheme integrating text and recognition-based graphical passwords.
- The image based password authentication scheme proposed here brings a solution to the problem and helps strengthen the security even in a low cost device with monochrome/color display and keypad.

### AI-powered threat detection system

- Developed an AI-powered threat detection system using Isolation Forest to identify network anomalies.
- Analyzed unlabeled network traffic data for real-time anomaly detection and evaluated system effectiveness.

### Honeypot Project

- Implemented and managed a Honeypot project, gaining hands-on experience in threat detection and attacker behavior analysis.
- Incident Response and Threat Intelligence: Utilized Honeypot data to generate actionable threat intelligence reports, strengthening the organization's security posture and incident response capabilities.

## EXPERIENCE:

### IT Support Officer

March 2025 – Present

*Ashford College*

- Managed and maintained campus-wide IT infrastructure, including servers, networking equipment, and end-user systems, ensuring high availability and minimal downtime.
- Implemented security measures and system updates, including firewalls, access controls, and backup solutions, to protect institutional data and comply with IT policies.
- Administered CRM softwares, student management and learning systems, ensuring smooth integration with compliance and training delivery requirements.
- Deployed and managed user accounts and permissions for trainers, students, and agents, safeguarding sensitive information while streamlining onboarding.

### Software Engineer Intern

Jan 2024 – July 2024

*Mintoak Innovations Pvt Ltd*

- Implemented key functionalities in the company's flagship iOS application
- API Integration: Integrated RESTful APIs to fetch and display dynamic data, ensuring seamless data flow.
- Bug Fixing & Testing: Identified and resolved critical bugs and Wrote unit tests to ensure code quality and maintainability.

### Data Analyst Intern

June 2023 – July 2023

*Bharat Petroleum Corporation Ltd*

- Developed interactive Power BI dashboards to analyze operational data and provide actionable insights to management.
- Extracted, cleaned, and transformed large datasets from SQL databases, improving data accuracy and accessibility for reporting. Conducted exploratory data analysis and presented findings to stakeholders, enabling data-driven decision-making in business operations.

## VOLUNTARY ACTIVITIES:

- Core Committee member of IET-VIT Jan 2021
- **RESEARCH:** Co-authored a book on the topic **Privacy and Security in IoMT** June 2023