

Bivin Joseph

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EDUCATION:

Vellore Institute of Technology, Vellore, India 2020-2024
Bachelor of Technology in Computer Science Engineering with specialization in Information Security

Indian School Al Seeb, Muscat, Oman 2007-2020
Primary, Secondary and High School

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, Bug bounty hunting, Cryptography & Encryption, Networking, Firewall & Proxy

PROJECTS:

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.

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.

An Advanced Keylogger Project

- Spearheaded design and coding of a sophisticated keylogger, showcasing expertise in system interactions, encryption, and secure data handling.

Web Penetration via Vulnerability Analyzer

- Led web penetration testing using a Vulnerability Analyzer, securing applications against cyber threats.
- Developed and deployed a custom tool for automated vulnerability detection, streamlining security processes.

EXPERIENCE:

Software Engineer Intern Jan 2024 – Present
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.
- Version Control: Managed code repositories using Bitbucket and Sourcetree, efficiently handling branching, merging, and pull requests to streamline development workflows.

Data Analyst Intern June 2023 – July 2023
Bharat Petroleum Corporation Ltd

- Utilizing Power BI for data analysis and creating visual representations.
- Extracting and manipulating data from SQL databases.
- Presenting findings to effectively communicate insights.

HONORS/ACTIVITIES:

- Core Committee member of IET-VIT Jan 2021
- Core Committee member of Pixelate-VIT Jan 2021
- UX/UI Designer at Incuwise Startup Incubator June 2021
 - My UX portfolio: [bivinjoseph.vercel.app](#)
 - Designed Mobile Apps, Websites and Pitch Decks for the clients.
 - Newo Taxi App: [Play Store Link](#) || [App Store Link](#)
- Co-authored a book on the topic **Privacy and Security in IoMT** June 2023

CERTIFICATIONS:

- IBM Cybersecurity Analyst Professional Certificate (**IBM**), •Introduction to Cybersecurity (**Cisco**),
- Cybersecurity Virtual Experience Program.(**Mastercard, PwC, ANZ**), •Oracle Cloud Data Management 2023 Certified Foundations Associate (**Oracle**), • Microsoft Certified: Security, Compliance and Identity Fundamentals.