GOKUL KANNAN GANESAMOORTHY

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SKILLS

Programming/Scripting Languages	C , Java, Python, JavaScript, HTML, CSS , C++
Databases	MySQL, MongoDB, Firebase
Tools	Git, BurpSuite
Frameworks	React, Node

EXPERIENCE

Ethical Hacking Intern   May 2023 − July 2023
Hackup Technologies   *Coimbatore, India*

- Intercepted and manipulated HTTP requests/responses between clients and servers to identify and exploit web application vulnerabilities, including SQL Injection, Cross-Site Scripting (XSS), and Cross-Site Request Forgery (CSRF).

- Performed in-depth web application penetration testing using tools such as Burp Suite, contributing to verified vulnerability reports and successful bug bounty submissions.

AI Engineer Intern   Jan 2025 − May 2025
aXtr Labs   *Coimbatore, India*

- Contributed to the "EdisonQgen" project, focusing on the fine-tuning of AI and deep learning models to develop custom-built, production-ready AI solutions.
- Applied machine learning techniques for model optimization, including data preprocessing, hyperparameter tuning, and performance evaluation using state-of-the-art frameworks.
- Collaborated in an agile research environment to prototype scalable AI systems aligned with client-specific requirements.

EDUCATION

Bachelor of Technology in Information Technology   Jul 2024 - Present
PSG College of Technology   **CGPA: 6.74**
Preferred Domain: Data Structures and Algorithms, DBMS, Operating Systems, Computer Networks, Linux

PROJECTS

VulnScan – Web Penetration Testing Tool – Developed VulnScan, a comprehensive web penetration testing tool as part of the diploma final year project. It features 21 advanced modules from old trends till the new trends. **Published as official PYPI Package**

Exam Surveillance Camera – An Advanced exam malpractice detection system using python, COCO model, Reach Dashboard, Firebase & ImageBB storage. **Submitted as an IEEE paper (Currently under peer-to-peer review)**

Singular Value Decomposition with PSO – Integrated SVD and PSO, reducing image processing time by more than 40% and leading to faster image analysis, while optimizing image quality through mathematical decomposition techniques.

Razorpay Payment Exploit – Discovered critical vulnerability in Razorpay integration within a seed-selling website's payment system, enabling purchase completion while bypassing actual pricing; reported findings to fix three biggest causes of crashes.

ACHIEVEMENTS

- **Syllabus Designer** – Designed the 2024-2027 Syllabus for Diploma Computer Engineering in PSG Polytechnic College
- **Technical Lead** – Spearheaded the technical initiatives of the club, leading a cross-functional team to build web platforms, event dashboards for entrepreneurship events and workshops.
- Hosted 12+ websites including freelancing projects