

AKSHAY PIRANAV BEEMARAJ

Software Development Engineer | Cyber Security Engineer

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Summary

Security-focused **SDE Intern** with **1 year and 1 Month of experience** at **Quarksek Technologies**. Skilled in **building cybersecurity tools, penetration testing**, and **implementing secure systems**. Eager to apply technical expertise to improve security, find vulnerabilities, and support resilient infrastructure in a **Cybersecurity Engineer** role.

Skills

Software Development:

Python, Django, Flask, FastAPI, Redis, Celery, ORM, MySQL, PostgreSQL, MongoDB, Docker, Git, GitHub, Solid Principles, AWS EC2, AWS S3

Security & Testing:

Computer Networks, Nmap, Metasploit, Wireshark, BurpSuite, Postman, Selenium, Pytest, Splunk Enterprises, Security Principles, Penetration Testing, Static application security testing, Software Composition Analysis, Software Bill of Materials, Bash, Cryptography Essentials, SQLMap

Experience



Quarksek Technologies Private Limited

Software Development Engineer Intern - Cyber Security

Eijipura, Bengaluru

04/2024 - 04/2025

- **Automated testing setup** for QA, **cutting manual effort by 40%** and improving efficiency.
- **Built a custom SAST tool** using top scanners, providing **30% better vulnerability detection** and deeper insights.
- **Created SCA and SBOM tools**, boosting **dependency risk visibility by 50%** and enhancing security assessments.
- **Developed a DAST tool with FastAPI**, **reducing manual testing by 60%** and accelerating vulnerability identification.
- Developed **AI Test Case Generator** using AI Models to reduce the manual efforts of generating Test Cases.

Education



Kamaraj College of Engineering and Technology

B.Tech Artificial Intelligence and Data Science | CGPA: **8.58/10**

Madurai, India

07/2021 - 04/2025

Projects

Py-Boards

- **Developed a cloud-based Python execution platform** using **Django**, **PostgreSQL**, and **Bootstrap** for real-time **IoT integration**.
- **Built a cross-platform desktop client** with **ElectronJS**, ensuring secure code execution through **YARA-based scanning**.
- **Optimized hardware-software interaction** for low-power devices like **Arduino** and **Raspberry Pi**, enhancing performance.

Automated Pen Testing

- **Developed backend** integration of **Nmap** and **ZAP** for **automated penetration testing** and **vulnerability assessment**.
- Implemented **Redis** and **Celery** for efficient **queue management**, and **OTP-based email authentication** for secure user registration. AI model for code enhancement and error solving.
- **Secured 2nd place in the Quarksek Hackathon**, leading to a **13-month internship-to-full-time job offer** at **Quarksek Technologies**.

Languages

English Proficient ●●●●●

Tamil Native ●●●●●

Telugu Proficient ●●●●●