

VIVEK PANCHAL

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SKILLS

Languages: Python, Shell Scripting (Bash), C (basic)

Technologies & Tools: Linux (Ubuntu, Debian), FreeBSD, Docker, Kubernetes, OpenZFS, PostgreSQL High Availability, Git, JIRA, Confluence, Firewall Design & Management, Network Security Architecture

WORK EXPERIENCE

Reticen8 Technologies Pvt. Ltd., Gurugram

March 2024 - Present

Software Development Engineer

- Engineered and automated a patch management system for a fleet of FreeBSD/Linux servers, reducing manual intervention and ensuring zero-downtime security compliance.
- Proactively identified and remediated system vulnerabilities across the infrastructure, hardening the security posture of critical production systems.
- Architected a secure Digital Rights Management (DRM) platform, focusing on the underlying infrastructure security and data protection mechanisms.
- Engineered a high-availability PostgreSQL cluster for the DRM backend, implementing replication and failover strategies to guarantee 99.9
- Optimized storage performance through query analysis and schema design, ensuring efficient and secure data access.

Veritawall Technologies Pvt. Ltd., Gurugram

Sep 2023 - Feb 2024

Associate Software Developer

- Developed a system-level licensing and access control mechanism for FreeBSD-based firewall appliances, directly manipulating system resources for security enforcement.
- Designed and implemented RESTful APIs in Python for the firewall's management interface, enabling secure configuration of network policies.
- Collaborated with the QA team to diagnose and resolve complex bugs in the firewall's networking stack, improving product stability and reliability.

Veritawall Technologies Pvt. Ltd., Gurugram

Mar 2023 - Sep 2023

Software Developer Intern

- Assisted in backend development and integration for network security products.
- Participated in bug triage and fix cycles, addressing minor issues in the firewall management interface to improve stability.
- Assisted senior engineers in reproducing customer-reported issues within a controlled lab environment.

PROJECT WORK

- POS Service for Service-Based SMEs:** Developed a web-based Point-of-Sale application for SMEs without fixed product catalogs. Key features include dynamic invoice generation, customer and user management with role-based permissions, CSV data backup, and a sales dashboard for monthly and profitability analysis.
- mktree - CLI Directory Structure Generator:** Engineered a command-line tool in Python to rapidly scaffold complex directory structures from template files. It supports parsing structured data from JSON and XML, as well as natural language descriptions processed by GPT models to streamline project initialization and enforce consistent layouts.

EDUCATION

Dr. Babasaheb Ambedkar Technological University, Lonere

June 2019 - Sept 2023

B.Tech in Electronics and Telecommunication Engineering

CGPA: 8.36/10

AWARDS AND CERTIFICATES

- Winner - Maharashtra Health Hackathon 2021
- Linux Fundamentals - Cisco
- Networking Essentials - Cisco
- Experience with open-source tools and practices (GitHub)