VIBHEK SONI

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Portfolio: vibhek.com | Security Blog: insecuremind.xyz

PROFESSIONAL SUMMARY

Backend Developer and Security Engineer with 5+ years of experience architecting scalable systems using Python (Django/FastAPI), C, and cloud technologies. Proven track record of delivering high-performance APIs serving 50K+ monthly requests, implementing security measures that reduced vulnerabilities by 80%, and maintaining 99.9% uptime across distributed systems. Specializes in microservices architecture, system hardening, and automated DevOps pipelines.

TECHNICAL SKILLS

Programming Languages: Python (Django, FastAPI, Flask), C (System-level programming), SQL (MySQL, PostgreSQL), Bash (Automation scripting)

Backend Frameworks & APIs: Django REST Framework, FastAPI (Async), Flask, Microservices Architecture, RESTful API Design, JWT Authentication

Databases & Caching: PostgreSQL (Advanced queries, optimization), MySQL (Performance tuning), MongoDB (NoSQL), Redis (Caching, session management)

Cloud & DevOps: Docker (Containerization), Kubernetes (Orchestration), AWS (EC2, S3, Load Balancing), GitHub Actions (CI/CD), Terraform (Infrastructure as Code)

Security & Infrastructure: System Hardening (VPS configuration), Firewall Management (iptables, UFW), Nginx (Reverse proxy, load balancing), SSL/TLS Implementation, Penetration Testing

Development Tools: Git (Version control), Docker Compose, Linux Administration, Unit Testing, Test-Driven Development (TDD)

PROFESSIONAL EXPERIENCE

Freelance Software Developer
Macan Studios | Remote | Jun 2025 - Present

- Architected and deployed high-performance client websites using modern web technologies, implementing performance optimization techniques that improved page load speeds by 35% and reduced bounce rates by 25%
- Automated complex backend workflows through custom Python and Bash scripting solutions, streamlining client operations and reducing manual processing time by 45% across 12+ projects
- Designed and implemented RESTful APIs with PostgreSQL integration, enabling seamless data synchronization and reducing data processing latency by 30%
- Collaborated with distributed teams using agile methodologies, delivering 100% of projects on schedule with 98% client satisfaction ratings

Freelance Full-Stack Developer
Tesseract | Remote | Sep 2023 - Present

- Developed and deployed secure web applications and Discord bots using Python, JavaScript, and modern frameworks, serving 10,000+ active users with 99.5% uptime
- Conducted comprehensive penetration testing and cybersecurity assessments for 15+ client systems, identifying and mitigating critical vulnerabilities that reduced security risks by 80%
- Implemented blockchain smart contracts and decentralized solutions, enhancing client operational efficiency by 40% and security posture in emerging technology sectors
- Optimized SEO strategies and digital marketing implementations, resulting in 60% improvement in client website visibility and 45% increase in user engagement metrics

Freelance Backend Developer
Independent | Remote | 2019 - Present

- Architected and delivered scalable REST APIs using Django/FastAPI and AWS infrastructure for 25+ client projects, implementing comprehensive unit testing that reduced post-deployment bugs by 40%
- Engineered secure VPS environments from the ground up, configuring iptables/UFW firewalls and implementing SSH hardening measures, achieving 99.9% uptime across all managed servers
- Designed microservices-based architectures with Redis caching and load balancing strategies, improving overall API performance by 60% and reducing response times from 200ms to 80ms
- Orchestrated automated CI/CD pipelines using GitHub Actions and Docker, containerizing applications and reducing deployment times by 50% while eliminating manual deployment errors

KEY PROJECTS

LlmEndpoint - Scalable AI API Platform
Python, Django, JWT, Docker, Redis, MySQL, Load Balancer

- Engineered a high-performance AI API platform providing cost-effective access to open-source models, serving 50,000+ authenticated monthly requests with 99.8% uptime
- Implemented sophisticated load balancing and intelligent routing system across 8 distributed nodes, with automatic failover capabilities and request queuing that reduced average response time by 40%
- Developed comprehensive node management system with real-time health monitoring and dynamic request distribution, maintaining optimal resource utilization and ensuring zero downtime during peak traffic

CyberShield - Real-Time Linux Firewall System
C, Linux Kernel Modules, iptables, VPS Management

- Developed high-performance firewall using C and Linux kernel-level packet inspection, successfully mitigating simulated DDoS attacks up to 8 Gbps with sub-millisecond processing latency
- Implemented dynamic rule generation and system hardening with custom UFW/iptables configurations, reducing successful penetration testing attack rates by 95%
- Architected real-time threat detection system processing 1M+ packets per second with automated response capabilities

ProxyIt - Enterprise IP Cloaking Platform
Python, Django, Redis, Nginx, Cloudflare

- Developed secure proxy service platform enabling IP cloaking for backend infrastructure, successfully protecting 500+ client services from direct exposure
- Implemented real-time attack detection and automated blocking mechanisms with comprehensive analytics, preventing 10,000+ unauthorized access attempts daily
- Optimized Redis caching and custom Nginx configurations, achieving 99.9% proxy availability and 50ms average connection establishment time

HostQuick - Automated VPS Provisioning System
Python, Proxmox, Docker, Bash, SSH

- Built fully automated VPS provisioning system using Proxmox, reducing manual server setup time from 4 hours to 10 minutes through complete automation
- Developed comprehensive web dashboard for VPS lifecycle management with real-time resource monitoring, serving 100+ concurrent users
- Implemented intelligent server partitioning logic optimizing dedicated server resource allocation, achieving 85% resource utilization efficiency

EDUCATION

Bachelor of Science in Computer Science
Queens College, City University of New York (CUNY) | Queens, NY | Expected May 2027

Relevant Coursework: Data Structures & Algorithms, Database Systems, Computer Networks, Software Engineering, Cybersecurity Fundamentals

High School Diploma
Richmond Hill High School | Queens, NY | 2023

Computer Science Focus

ADDITIONAL INFORMATION

Security Blog: Published research on AI security vulnerabilities and Chrome browser security at insecuremind.xyz

Certifications: Available upon request

Availability: Full-time, Open to Projects