Ankit Gupta

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EDUCATION

Coventry University (Softwarica College Partnership)	Kathmandu, Nepal
BSc (Hons) Ethical Hacking and Cybersecurity, Third-Year Student	*Mar. 2023 – Mar. 2026*

TECHNICAL SKILLS

Languages: Python, JavaScript, Node.js, Bash, SQL, PHP, HTML/CSS, LaTeX
Frameworks & Libraries: Express.js, Discord.js, React, Flask, RESTful APIs, WebSocket, Canvas API
Cloud & DevOps: Oracle Cloud, VPS Management, Docker, Linux Administration, Nginx, PM2, Git/GitHub
Security Tools: Metasploit, Burp Suite, Wireshark, Nmap, Nessus, OWASP ZAP, John the Ripper, Hashcat
Databases & Streaming: MongoDB, MySQL, PostgreSQL, Lavalink, Real-time Audio Processing
AI/ML Integration: OpenAI API, Claude API, Grok, DeepSeek, Pollinations AI, Multi-model Orchestration

PROJECTS

DTEmpire AI Terminal - Multi-AI Interface Platform   Jan. 2024 – Present
Full-Stack Developer — GitHub — Live Demo

- Engineered scalable platform integrating 12+ AI models (GPT-5, Claude, Grok, DeepSeek) serving 10,000+ daily interactions
- Built Express.js backend with real-time monitoring, API rate limiting, and comprehensive error handling achieving 99.7% uptime
- Developed Discord bot with auto-reply system and session management, reducing manual moderation time by 65%

DTEmpire Music Bot & Lavalink Infrastructure   Aug. 2023 – Present
Backend Developer & Infrastructure Engineer — GitHub — Live Lavalink

- Deployed production Lavalink v4 audio streaming server supporting 500+ concurrent users across multiple Discord servers
- Engineered feature-rich music bot with queue management, playlist support, and playback controls handling YouTube and Spotify
- Implemented live monitoring dashboard with real-time metrics and uptime tracking at live-monitor.ankitgupta.com.np

DTEmpire AI Image Generator - Production AI Service   Nov. 2024 – Present
Full-Stack Developer — GitHub — Live Site

- Built AI image generation platform with Node.js and Discord.js processing 5,000+ images weekly across web and Discord
- Integrated multiple AI models (Flux, Turbo, Kontext) with real-time generation status and polling mechanisms
- Implemented image caching and gallery system with efficient storage management reducing API calls by 40%

DTEmpire Documentation & Service Infrastructure   Sep. 2024 – Present
Frontend Developer — GitHub — Live Site

- Designed interactive documentation platform with matrix-themed UI using vanilla JavaScript and Canvas API animations
- Built single-page application with Intersection Observer achieving 95+ Google Lighthouse performance score
- Documented 10+ services with live status monitoring, API testing interface, and comprehensive technical guides

Oracle Cloud Infrastructure Security Implementation   Jan. 2024 – Present
Cloud Security Engineer

- Deployed enterprise-grade Oracle Cloud server with defense-in-depth strategies, reducing attack surface by 60%
- Configured IDS/IPS, SSL/TLS certificates, automated monitoring, and role-based access control ensuring compliance

Achievements & Certifications

API Security Fundamentals (2025): Expertise in securing RESTful APIs and mitigating OWASP API Top 10 vulnerabilities

CTF Competitions: Solved 100+ challenges on HackTheBox and TryHackMe in web exploitation, cryptography, reverse engineering

Open Source: Maintained 6+ GitHub repositories with 50+ stars showcasing automation, security, and full-stack projects

Production Systems: Deployed 6+ live services with 99%+ uptime including web apps, Discord bots, and streaming infrastructure

Additional Information

Focus Areas: Full-Stack Development, Cloud Security, AI/ML Integration, Real-time Systems, DevSecOps, API Design
Soft Skills: System Architecture, Technical Documentation, Problem-Solving, Agile Development, Team Collaboration