

Ayush Kumar

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GitHub: <https://github.com/Neo-Ayush-jha/>

SKILLS

Full Stack Development: MERN Stack, Django + React, REST APIs, Authentication, Database Design, Deployment

Programming Languages: C++, JavaScript, TypeScript, C, PHP, Python

Frameworks: Django, React.js, Next.js, Node.js, Express.js

Frontend: HTML, CSS, Bootstrap, Tailwind CSS

Backend: REST API, JWT Auth, OAuth, Firebase

Databases: MySQL, MongoDB, PostgreSQL, Secure Queries & SQL Injection Prevention

Tools: Git, GitHub, Postman, VS Code, Linux, Firebase, Cisco Packet Tracer, Burp Suite, Nmap, Kali Linux

Soft Skills: Problem-Solving Skills, Team Player, Project Management, Adaptability

INTERNSHIP

Incupad India Pvt. Ltd.

March 2024 – November 2024

Full Stack Developer

- Spearheaded frontend development for an AI-based chatbot using **React.js** and **Tailwind CSS**, delivering a responsive and user-friendly interface.
- Integrated **Firebase Authentication** and **Google Services** to enhance platform security and streamline user access.
- Constructed and connected **Django RESTful APIs**, enabling efficient communication between frontend and backend systems.
- Partnered with backend developers, AI specialists, and project managers to meet technical and functional goals.
- Resolved production-level issues and implemented optimizations to improve chatbot performance, scalability, and user satisfaction

Banao Technologies

August 2023 - March 2024

Python Django Developer Intern

- Developed high-performance backend modules using **Django** and **DRF**, enabling smooth and secure data exchange.
- Executed **JWT + OAuth** (Google Sign-In) for advanced authentication, improving login success rate and system security.
- Integrated **AWS (boto3)** and managed MySQL/PostgreSQL databases using **mysqlclient** and **psycopg2**, ensuring reliable cloud storage.
- Enhanced database performance through query optimization and secure configuration, improving backend efficiency by **25%**.

Atilla Technology

January 2023 – August 2023

Full Stack Developer

- Developed scalable backend systems using **Django**, **PHP**, and **JavaScript**, delivering reliable and modular applications.
- Integrated third-party services such as **Google APIs** and **Razorpay**, improving payment workflow and system functionality.
- Coordinated with cross-functional teams to align requirements and ensured smooth delivery of features.
- Resolved major bugs and optimized load times, increasing system efficiency by 35%.

PROJECTS

MicroCourses Platform:

September 2025 – October 2025

- Created a dynamic online learning platform that offers micro-courses with progress tracking and certification.
- Designed and implemented a responsive frontend using **React.js** and **Tailwind CSS** for an intuitive user experience.
- Built **RESTful APIs** using **Django** to manage courses, enrolments, and student performance analytics, improving system efficiency.
- Integrated Firebase for real-time notifications and authentication.
- Added a certificate generation module to automatically issue verified completion certificates.
- Implemented course recommendation logic to suggest personalized learning paths for users.
- Built an admin panel to manage courses, instructors, and users efficiently.
- Project selected and developed during a hackathon conducted by a reputed company, showcasing teamwork, innovation, and technical proficiency.

Tech: Next.js, Django, PostgreSQL, Tailwind CSS, Firebase, REST API, React.js

Github Link: <https://github.com/Neo-Ayush-jha/microcourses-backend>

Link: <https://microcourses-frontend.vercel.app/>

SPIDER (Scan & Port Inspection: Discovery & Exploitation Report)

June 2025 – November 2025

- Built an automated security scanning platform combining Dynamic Application Security Testing (DAST) and network-level port scanning to assess real-world attack surfaces.
- Designed and implemented OWASP Top 10 vulnerability detection including SQL Injection (error-based & blind), XSS (reflected, stored, DOM-based), IDOR, SSRF, CSRF, XXE, security misconfigurations, and missing security headers.
- Developed a modular Python-based scanning engine with crawler, vulnerability modules, and evidence-based validation using HTTP request/response analysis.
- Implemented CVSS-aligned severity scoring and vulnerability prioritization to support accurate triage and reduce false positives.
- Integrated Nmap-based IP & port scanning for service discovery, open/filtered port identification, and attack surface enumeration.
- Built asynchronous scan execution using Celery & Redis to enable real-time progress tracking and parallel scans without UI blocking.
- Generated professional security reports (PDF/CSV/HTML) including vulnerability details, proof-of-concept evidence, and remediation guidance.
- Designed REST APIs for CI/CD and DevSecOps integration to support shift-left security practices.

Role: Application Security Engineer / Backend Developer

Type: Academic + Practical Cybersecurity Project

Tech: Python, Django, RestAPI, PostgreSQL, Nmap, Celery, Redis, OWASP Top 10, CVSS, REST APIs

Link: <https://github.com/Neo-Ayush-jha/SPIDER>

EDUCATION

Lovely Professional University

Punjab, India

Master of Computer Application - Computer Application; **CGPA: 8.1**

Since 2024

Purnia University

Purnia, Bihar

Bachelor of Computer Application - Computer Application; **Percentage: 73.53%**

2020- 2023

BBM High School

Purnia, Bihar

Intermediate with Science(PCM); **Percentage: 75%**

2019- 2020