Abhinav Yadav

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EDUCATION

Bachelor of Technology, IIIT Kottayam   Nov, 2021 - Apr, 2025
Stream: Computer Science with Specialization in Cyber Security.   Fourth year cgpa: 8.43/10

EXPERIENCE

Software Developer Intern   July 2025 - Present
Airspan Networks   *Bangalore*
- Constructed a **KPI classification system** that parses `debug.log` files using predefined patterns and produces KPI insights with a visual flowchart and categorized summaries on the frontend.
- Designed a **modular FastAPI system**, **containerized with Docker Compose**, using **Redis RQ workers** to parallelize log processing across two VMs.
- Drafted an interactive **UI layout in Figma** and translated it into a responsive **ReactJS** front end.

Backend Developer Intern   May 2024 - July 2024
S.R. Electricals   *remote*
- Built 10+ REST APIs with Node.js/Express & added Jest/Supertest coverage to boost backend reliability.
- Engineered backend with Node.js and Express for efficient requests and seamless database integration.
- Performed security tests for API auth, input sanitization, & access control, improving backend robustness.

PROJECTS

Package Scout (VS code extension):   **(JavaScript)**
- **Automated Python dependency detection** by scanning project directories & generating accurate requirements file, **achieving 40+ installations**.
- Enabled **automatic virtual environment setup** & dependency installation to accelerate project workflows.
- **Intelligent import-to-package mapping** with exclusion rules to ensure clean, precise dependency resolution.

VeePlay (Media Streaming App):   **(Flask, PostgreSQL, SQLAlchemy, JWT, AWS S3)**
- Full-stack media streaming platform using a Dockerized Flask backend & Android client.
- Created **robust JWT + bcrypt authentication** & user session security for reliable app access.
- Built scalable S3 signed-URL streaming & tuned a Dockerized backend for **1,000+ weekly request** handling.

Load Balancer: **(C++, Libraries: socket, threads)**
- Created a **multithreaded load balancer** distributing traffic across **4+ servers** to optimize performance.
- Implemented **round-robin load balancing** to manage traffic and optimize overall server performance.
- Integrated **automated health-check** logic to **identify failing servers and reroute traffic** seamlessly.

Blog Website: **(Python-Django, sqlite, HTML, Bootstrap)**
- Deployed the **back-end** for a Twitter-like blogging platform, enabling users to create and share 100+ posts.
- Designed APIs for image uploads with **server-side storage**, efficiently managing 10+ uploads in **SQLite**.
- Implemented secure CRUD APIs with JWT authentication, IDOR prevention and image uploads.

SKILLS

Programming Languages: Python, C++, JavaScript, C, Shell Scripting, HTML, CSS
Frameworks & Libraries: Node.js, Flask, FastAPI, Django, React.js, Next.js
Databases & ORMs: MySQL, PostgreSQL, MongoDB, SQLite, SQLAlchemy, Sequelize
Cloud & DevOps: AWS, GCP, OCI, Azure, Docker, Kubernetes, Terraform
Developer Tools: Linux, Windows, Git, GitHub, GitLab, Jenkins, VS Code

ACHIEVEMENTS

- Achieved an impressive 4200 points in PicoCTF 2023, securing a global 615th Rank and 417th rank in NahmconCTF 2023.
- Completed TCM Security's 'Web Application Security' course & audited multiple web apps for web vulnerability.
- Completed AWS Cloud Practitioner Essential Course on AWS skillbuilder.

EXTRA-CURRICULAR ACTIVITIES

- Written multiple **blog posts** on Medium to share the progress and other discoveries made during a project.
- Actively contribute to **open-source projects on GitHub** by fixing bugs, improving documentation and enhancing features in community-driven repositories.
- Participated in **20+ CTFs** and regularly practices on TryHackMe and Hack The Box.
- Practice drawing as a creative outlet to relieve stress, mentally recharge and maintain creative thinking.