

ABHINAV ADARSH

Haryana, India

+91 6299960489 |  Email |  GitHub |  LinkedIn |  LeetCode |  Portfolio

SUMMARY

Full-stack developer with experience building and deploying production-grade platforms. Strong foundation in data structures, smart contract development, and scalable backend systems. Active open-source contributor with consistent problem-solving and real-world engineering experience.

CORE SKILLS

Programming: Python, C++, JavaScript, TypeScript, PHP
Backend: Next.js, REST APIs, WebSockets, JWT, RBAC, File uploads & media handling
Frontend: React.js, Next.js, Shadcn-UI, Tailwind, HTML5, CSS, Responsive UI
Databases: MySQL, MongoDB, PostgreSQL
DevOPS: Docker, Github Action (CI/CD), Nginx & SSL configuration (Certbot)
Tools: Git, GitHub, Linux, Postman

PROJECTS

WebTools CLI | OSINT, Intelligence & AI Studio

 [GitHub](#) | [Live](#)

- **Tech Stack:** Python, Flask, Playwright, Stable Diffusion (ComfyUI), OpenCV, SQLite, Mega.nz API
- Engineered a **hybrid Intelligence suite** featuring a high-concurrency scraping engine with Playwright fallback for SPAs and success-based proxy scoring to bypass WAFs and bot-detection.
- Architected an **AI Generation Studio** via ComfyUI, enabling custom Stable Diffusion workflows and an automated "Anime Mode" (Anima) for direct model deployment from Hugging Face.
- Developed a **Universal Media Sniffer** with OpenCV-based validation and **Mega.nz cloud integration**, enabling one-click remote backups of multi-threaded asset downloads.
- Designed a **Mobile ADB Management Dashboard** for automated Android optimization and bloatware removal, optimizing the suite
- Integrated **Sentiment Analysis** via TextBlob to provide real-time qualitative insights on scraped web data, delivered through a motion-animated Flask dashboard.

CodeChemy | Secure Social Blogging Platform

 [GitHub](#)

- **Tech Stack:** Python, Django, SQLite, Bootstrap, Pillow, SMTP, ipinfo.io, TOTP
- Engineered a **hardened authentication system** featuring email-based OTP verification, secure password recovery, and **TOTP-based Multi-Factor Authentication** to protect user accounts.
- Built an **automated image processing pipeline** using Pillow to convert uploads to **WebP format**, achieving a ~60% reduction in storage overhead and significantly faster page load times.
- Developed **social orchestration features** including a multi-directional friend request system, real-time notification triggers, and granular privacy settings for user data isolation.
- Integrated **geospatial auditing** via the ipinfo.io API to monitor login session locations and post origins, providing users with security alerts and activity analytics.

Strlink | High-Performance PWA URL Shortener

 [GitHub](#) | [Live](#)

- **Tech Stack:** PHP, MySQL, JavaScript (ES6+), TOTP, Apache (Regex)
- Designed a **high-concurrency redirection engine** utilizing optimized Regex-based routing via Apache `.htaccess` to ensure sub-100ms latency for global link resolution.
- Implemented an **Offline-First architecture** using Service Workers and Cache API, enabling the PWA to maintain 100% uptime even in offline conditions.
- Hardened the administrative backend with **MFA (Multi-Factor Authentication)** via TOTP, integrating secure session management and encrypted recovery protocols.
- Architected a **Headless API layer** (`api.php`) to decouple core logic from the UI, supporting programmatic link generation and third-party automation.

Face Swapper – AI Face Tool

 [Github](#) | [Live](#)

- **Tech:** Python, Streamlit, InsightFace, GFPGAN, ONNX
- Developed **AI face swapping** with automated **GFPGAN restoration** for HD results
- Implemented **fast local inference** using ONNX Runtime and model weight caching

COMPETITIVE PROGRAMMING

Solved **100+** **DSA problems** on LeetCode | Strong in Arrays, Hashing, Binary Search

EDUCATION

K.R. Mangalam University
B.Tech CSE Core

May 2024 – May 2028

CERTIFICATIONS

Full Stack Developer – United Latino Students Association

Python (Basic) – Certified in fundamental Python programming and problem-solving concepts

Gen AI Academy (Google) – Hands-on experience with Google GenAI tools including Vertex AI and Gemini APIs

Google Play Academy – Store Listing – Learned best practices for app publishing and Play Store optimization

Introduction to Data Science – Covered basics of data analysis, visualization, and statistical thinking

VIRTUAL EXPERIENCE

Tata iQ – GenAI Data Analytics Job Simulation

- Designed an AI-driven strategy to predict and reduce customer credit delinquency in financial services
- Leveraged GenAI tools (ChatGPT, Google Gemini) for data analysis, predictive modeling, and responsible AI decision-making
- Gained hands-on exposure to AI transformation workflows in a consulting-style environment

JPMorgan Chase – Backend Engineering Job Simulation

- Developed core components of the **Midas transaction-processing system** using Java and Spring Boot
- Integrated **Apache Kafka**, SQL database, and external REST APIs into a scalable distributed backend system
- Strengthened skills in system design, event-driven architecture, and high-performance data pipelines

PROFESSIONAL STRENGTH

- Strong problem-solving mindset with solid DSA foundation
- Ability to design and ship production-ready systems
- Deep understanding of Web3 security and smart contract testing
- Proven consistency through open-source and competitive programming