

ADARSH ARYA

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PROFESSIONAL SUMMARY

Computer Science undergraduate (2nd Year) and Front-End AI Engineering Intern at FlyRank AI, a US-based AI startup, building production React.js components for AI-driven products. Full-stack experience across React.js, Node.js, Python, and Flask, with applied expertise in computer vision (YOLOv8, OpenCV), AI integration (Gemini, Claude/Anthropic APIs), and cybersecurity (intrusion detection, ethical hacking). Holds a Government of India software copyright for an AI-powered pothole detection system and serves as Tech Lead of Google Developers Group on Campus (GDGoC RIT). Recognized with a Best Project Award and multiple national hackathon wins. Seeking Software Engineering / Front-End AI Engineering internship opportunities.

PROFESSIONAL EXPERIENCE

Front-End AI Engineering Intern — FlyRank AI

July 2026 – Aug 2026

US-based AI Startup | Remote

- Developing and shipping React.js front-end components for FlyRank AI's production web platform, working directly within a live US-based startup engineering environment.
- Collaborating with the engineering team on component-driven UI architecture, translating design and product requirements into reusable, maintainable React components.
- Applying AI-assisted engineering workflows using Anthropic's Claude for accelerated coding, debugging, and code review — certified in Claude 101 and AI Fluency through FlyRank AI's internal Anthropic certification track.
- Operating in a fast-paced, 8-week startup delivery cycle, gaining direct exposure to international remote software engineering practices and agile iteration.

Technologies: React.js, JavaScript, TypeScript, HTML5/CSS3, Git, Claude (Anthropic AI tooling)

Corporate Industry Collaboration — Student Trainee

2025 – 2026

Industry Partner × Roorkee Institute of Technology

- Completed structured, mentor-led training in Python programming and cloud computing technologies delivered by certified corporate trainers with real-world industry experience.
- Designed, developed, and presented a technical project awarded Best Project by senior industry mentors, selected from all program participants.
- Gained hands-on experience deploying cloud-based applications using enterprise tools and production-grade development workflows, applying best practices in software design and cloud architecture.

PROJECTS

AEGIS Security Suite — Founder & Lead Developer

2026

Modular Cybersecurity Suite | github.com/itsaddyon/AEGIS

- Architected and independently built AEGIS, a three-module cybersecurity suite (ARGUS, CAST, VISTA) covering real-time intrusion detection, gamified security training, and network traffic visualization.
- Built ARGUS, a real-time Network Intrusion Detection System (NIDS) using deep packet inspection and heuristic rules to detect port scans, brute-force attempts, and other malicious network behavior.
- Developed CAST, a gamified Cyber Awareness Simulation Trainer with hands-on labs for phishing-vector detection and password entropy auditing.
- Engineered VISTA, a network traffic monitor with live bandwidth mapping and geographic IP routing visualization, and compiled each module into standalone Windows executables.

Technologies: Python, JavaScript, Node.js, Scapy, Npcap, SQLite, Network Security, Intrusion Detection

IRIS — Intelligent Road Inspection System — Project Lead & Backend Developer

2026

AI-Powered Pothole Detection & Municipal Inspection Platform | Team Grey Hats

- Built an AI-powered road inspection system using YOLOv8 computer vision, achieving 94.3% pothole detection accuracy (vs. 60–80% manual) with sub-1-second response time and a 5.7% false-positive rate.
- Engineered a dual-portal (Driver + Municipal) system with Flask, Flask-SocketIO, and SQLite, supporting live camera-feed detection, severity classification, and GPS-tagged evidence capture.
- Integrated Google Gemini AI for incident analysis, Firebase/Firestore cloud sync, and Arduino-based hardware alerts; curated a 17,497-image dataset to train the detection model.
- Built a GIS-mapped municipal review dashboard with automated PDF reporting, and completed a formal software copyright registration under the Government of India's Copyright Act.

Technologies: Python, YOLOv8, OpenCV, Flask, Flask-SocketIO, SQLite, Firebase, Google Gemini API, Arduino, GIS/Leaflet

MediBridge Connect — Owner & Sole Developer

2024 – Present

Unified Health Referral & Rural Outreach Platform

- Independently architected and deployed a full-stack health referral platform connecting rural clinics (PHC/CHC), district hospitals, doctors, and administrators to address rural healthcare accessibility gaps.
- Built a role-based access control system with dedicated Clinic, Doctor, and Admin dashboards, real-time referral tracking, and patient registration across multiple user types.

- Integrated a Google Gemini-powered geolocation chatbot (MediBot) using Leaflet.js to help users discover nearby healthcare facilities, backed by a scalable Firebase data layer.
Technologies: TypeScript, React.js, Node.js, Tailwind CSS, Vite, Firebase, Leaflet.js, Google Gemini API, REST APIs
- SidekickAI (Sidechick) — Lead Developer & Architect** 2026
 - Built a real-time Flask-SocketIO chat platform featuring AI-powered "Vibe Check" mood and tone analysis using a custom NLP pipeline (TextBlob + sequence modeling).
 - Deployed a decoupled architecture with the frontend on Vercel and backend on Render; resolved cross-device mobile UI/UX issues including virtual-keyboard and screen-stacking bugs.
- RIT AI Chatbot — Developer** 2025
 - Built a campus AI chatbot using IBM WatsonX on IBM Cloud, integrated into a full frontend clone of the institute website via the WatsonX embed SDK.
- APNIRAIL — Major Contributor** 2024
 - Contributed to core feature development for a national-level public utility platform within a structured multi-developer team, following software engineering standards for code quality and reliability.

LEADERSHIP & CAMPUS INVOLVEMENT

- Tech Lead — GDGoC RIT (Google Developers Group on Campus)** 2025 – Present
 - Co-leading GDGoC RIT's technical initiatives alongside fellow Tech Lead Arpit Panwar; organized Capture The Flag (CTF) 2K26 and VibeCon'26 (AI Creator Showcase).
 - Co-organized the "Build with AI Bootcamp" with Hack2Skill and led the post-event LinkedIn content strategy and campaign roadmap.
- Leader — Team Grey Hats** 2024 – Present
 - Active member of RIT's core project team, leading development across IRIS, AEGIS, SidekickAI, and MediBridge Connect.

EDUCATION

- Bachelor of Technology (B.Tech) — Computer Science Engineering** 2025 – 2029 (Expected)
Roorkee Institute of Technology, Roorkee, Uttarakhand | NAAC A++ Accredited | Currently 2nd Year

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, Java, C, HTML5, CSS3
Frameworks & Libraries: React.js, Node.js, Flask, Flask-SocketIO, Tailwind CSS, Vite, React Router, Leaflet.js
AI & Machine Learning: YOLOv8, OpenCV, Computer Vision, Google Gemini API, Claude/Anthropic API, OpenRouter, Prompt Engineering
Cloud & Backend: Firebase, Firestore, REST APIs, Geolocation APIs, Role-Based Access Control, SQLite
Cybersecurity: Network Intrusion Detection, Ethical Hacking, Vulnerability Assessment, Secure Coding Practices, Packet Analysis (Scapy)
Hardware & IoT: Arduino, Serial Communication, Sensor Integration
Engineering Practices: SDLC, Agile Methodology, System Architecture, API Design, Git/Version Control

ACHIEVEMENTS & AWARDS

- IBM Best Project Award — Recognized by senior industry mentors and organizational leaders in a competitive corporate training program.
- Winner — 24-Hour Institutional Hackathon (1st among all departments), GeeksforGeeks (GFG) × Institutional Hackathon, and Google Developers Group (GDG) Hackathon.
- Project selected and showcased at a Prime Minister-level national platform, representing institutional innovation at the highest governmental level.
- Software Copyright Registration — Filed a formal 31-page copyright registration for IRIS under the Government of India's Copyright Act.
- Recipient of multiple awards across inter-college technical exhibitions and competitive programming events.

CERTIFICATIONS

- Claude 101 & AI Fluency — Anthropic (via FlyRank AI)
- Cybersecurity Professional, Ethical Hacking, Advanced Ethical Hacking, and Cybersecurity Fundamentals — Certified
- Excellence in Python Programming and Excellence in C Programming — Certified
- Cloud Computing & Software Development — Multiple Industry Certifications