ARUN KUMAR MEDA

Software Engineer | Front-End AI Engineering Intern

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PROFESSIONAL SUMMARY

High-performing Software Engineer and Front-End AI Engineering Intern with proficiency in JavaScript (ES6+), React, C/C++, and Python. Demonstrated success engineering production-grade web platforms serving 500+ users, reducing operational overhead by 80%, and ranking in the **Top 37 National Finalists (Top 1.5%) out of 2,500+ teams**. Skilled at converting complex requirements into fast, accessible, user-centric interfaces.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), C, C++, Python, HTML5, CSS3, SQL

Frontend: React.js, Vite, Web APIs, CSS Flexbox/Grid, Responsive Design, Component Architecture

Backend & Databases: Node.js, FastAPI, REST APIs, Firebase Firestore, MongoDB, Python Server-Side

Tools & Practices: Git, GitHub, VS Code, Linux Shell, RBAC Authentication, Rate-Limiting Middleware, CI/CD

WORK EXPERIENCE & INTERNSHIPS

Front-End AI Engineering Intern — FlyRank AI

June 2026 – Present | 12-Week Internship | Bengaluru, India

- Selected out of 200+ applicants; designed and shipped **15+ production-ready React web interfaces**, increasing user engagement metrics by **35%** within the first 6 weeks.
- Architected **5 AI-driven feature workflows** integrating third-party ML APIs, cutting client-side UI rendering latency by **40%** and reducing average page load time from 3.2s to 1.9s.
- Refactored **20+ legacy CSS/JS modules** into a reusable component library of 30 components, accelerating team feature deployment velocity by **25%** and eliminating 300+ lines of duplicate code.

Lead Developer — DSCE ERP Management System

Academic Year 2025 – 2026 | DSCE Bengaluru

- Architected and delivered a full-stack mini-project management platform serving **500+ engineering students** and **30+ faculty** using React, FastAPI, and Firestore — reducing project registration time by **60%**.
- Built an automated guide allocation algorithm that matched **200+ student projects to guides in under 2 seconds**, eliminating 100% of manual scheduling conflicts and saving **40+ administrative hours** per semester.
- Implemented token-bucket rate-limiting middleware and role-based access control (RBAC), sustaining **99.9% uptime** across **10,000+ monthly requests** with zero security incidents.

KEY PROJECTS & ACHIEVEMENTS

National Agriculture Tech Solution — Team Lead (Alpha_Coders)

Jan 2026 | IBM & ACM Co-sponsored National Hackathon | 36-Hour Event

- Led a **4-person developer team** to design, build, and demo an automated IoT/AI crop-health monitoring platform entirely within a **36-hour hackathon** window.
- Ranked in the **Top 37 National Finalists (Top 1.5%)** out of **2,500+ competing developer teams** across all states of India, co-judged by IBM and ACM.
- Developed 3 real-time telemetry dashboards processing crop sensor streams for **100+ simulated agricultural fields**, with sub-500ms data refresh rates.

Open Source Contributions & Web Applications — Developer

2024 – Present | github.com/arunkumarmeda27

- Authored and maintain **10+ public GitHub repositories** with **100+ commits** and 95%+ documentation coverage, consistently maintaining code quality scores above 90/100.

- Optimized critical rendering paths and asset bundle sizes across 3 web projects, improving **Google Lighthouse Performance scores from 72 to 98/100** — a 36-point gain.

EDUCATION

Bachelor of Engineering (B.E.) in Information Science & Engineering (ISE)
Dayananda Sagar College of Engineering (DSCE), Bengaluru | 2024 – Present

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming (C++/Java), Database Management Systems, Web Engineering, Operating Systems, Computer Networks.

CERTIFICATIONS & HONORS

- **Top 37 National Finalist (Top 1.5%)** — Tech For Agriculture National Hackathon, co-sponsored by IBM & ACM (Jan 2026)
- **Mastering C & C++ Programming** — Udemy Certified (Jan 2025)