Aditya Prabhakar

Roll No.:240107003
B.Tech - Chemical Engineering (Major)
Minor in Computer Science
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Codeforces (Max Rating 1098)

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.43 (Current)	2024-Present

EXPERIENCE

- **AYUSH Upchar** *Aug. 2025 – Oct. 2025*
  Web Developer Intern Remote
  - Conducted a comprehensive **website performance audit** using Google PageSpeed Insights, analyzing **Core Web Vitals** and identifying major performance gaps across **desktop (score: 59)** and **mobile (score: 28)**.
  - Quantified client-side inefficiencies including **1.5 MB+ unused JavaScript**, **45 KB unused CSS**, render-blocking resources causing **˜390 ms (desktop)** and **˜480 ms (mobile)** delays, and up to **˜9.3 s of main-thread blocking time**.
  - Authored a detailed **performance optimization report** outlining actionable improvements such as **deferred script loading**, **critical CSS inlining**, **CDN-based image delivery**, **SVG optimization**, and **semantic HTML enhancements**, projecting **PageSpeed improvements to 75+ (mobile)** and **90+ (desktop)**.
  - Documented **SEO and accessibility enhancements**, including image alt-attribute optimization and structural markup improvements, targeting an **SEO score of 90+**, and presented recommendations to the development team for prioritization.

PROJECTS

- **Vogue Nation Portal** *Oct. 2025*
  Alcheringa 2026, IIT Guwahati Website
  - Built a **full-stack event registration and team management platform** using **Django, SQLite, and Google OAuth 2.0**, supporting secure authentication for **35+ teams and 140+ registered participants (ongoing)**.
  - Designed **relational data models** with Django ORM to enable **one-to-many team workflows**, implemented via **formsets and Django signals** for dynamic team creation and validation.
  - Deployed the application using **Gunicorn and Whitenoise**, delivering a **responsive, animated UI** with **Tailwind CSS and GSAP** for live fest usage.

TECHNICAL SKILLS

- **Programming**: Python, C/C++, JavaScript
- **Databases**: MongoDB, SQL, SQLite
- **Web Development**: HTML, CSS, React.js, Django, Node.js, Express.js
- **Tools and Platforms**: Git, GitHub, Google OAuth, Gunicorn, Figma

* Elementary proficiency

POSITIONS OF RESPONSIBILITY

- **Executive**, WebOps, Spirit 2025, IIT Guwahati *May 2025 - Nov. 2025*
- **Executive**, WebOps, Alcheringa 2026, IIT Guwahati *Jul. 2025 - Present*
- **Manager**, WebOps, Udgam 2026, IIT Guwahati *Sep. 2025 - Present*

ACHIEVEMENTS

- **Department Rank 1**, CL Branch, received the **Institute scholarship** for academic excellence. *2025*
- **AIR 5103**, JEE Advanced, out of 1,80,000 JEE Main Qualified Candidates *2024*
- **AIR 5474**, JEE Main, out of 13,00,000 Eligible Candidates *2024*