

RAGHAV BAGDI

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LinkedIn

GitHub

LeetCode

Education

Indian Institute of Information Technology, Gwalior

Integrated B.Tech + M.Tech in Information Technology

Expected May 2027

CGPA: 8.12

Sky Height Academy, Betma

Central Board of Secondary Education (CBSE)

Percentage: 94.8%

Work Experience

Software Development Intern

AlgoUniversity | Y-Combinator Backed

Jan 2025 – March 2025

Hyderabad, India ; Remote

- Added multi-language compiler support (**C, C++, Java, Python**), driving **40%** user growth within two months.
- Applied **MongoDB projections** to remove heavy fields in problem queries, cutting payload size by **70%**.
- Engineered **server-side pagination** for problem listings using **skip/limit**, optimizing query execution and response size to deliver **faster main-page reloads** at scale.
- Built **REST APIs** for **problem management** (create/list/view/delete) in an online judge using **Express** and **MongoDB**, with **role-based access control** for admin actions.

Technical Skills

- Languages:** C, C++, JavaScript
- Frontend:** React.js, Tailwind CSS, HTML, CSS
- Backend:** Node.js, Express.js, RESTful APIs, JWT, bcrypt
- Databases:** MongoDB, Mongoose, MongoDB Geospatial, SQL
- Cloud & Tools:** AWS (EC2, S3, CloudFront, Lambda), Git, GitHub, Postman, VS Code
- APIs & Libraries:** Google Gemini API

Projects

Online Judge Platform | Node.js, Express.js, MongoDB, AWS, JWT, AI-assisted Code Review

- Built an end-to-end online judge with **AI-assisted feedback** using **Node.js**, **Express.js**, and **MongoDB**.
- Implemented **stateless authentication** using **JWTs** and **bcrypt**, enabling secure token-based access control.
- Developed an **AI-assisted code review system** using the **Google Gemini API** to analyze submissions and suggest optimizations.
- Hosted the platform on **AWS** using **Lambda** for serverless backend, **S3 buckets** for storage, and **CloudFront** for global content delivery.

EcoMart: Smart Rerouting Platform | MERN Stack, Google OAuth, MongoDB Geospatial

- Built a hackathon-winning platform that **reroutes cancelled orders to nearby buyers**, developed using **Node.js**, **Express**, and **MongoDB** to reduce product waste.
- Built a **login/register dashboard** with **email/password** sign-in and **Google OAuth**, securing access to **order workflows** (create/view/cancel).
- Built the geospatial reroute flow using **MongoDB GeoJSON Points** with **2dsphere** indexes and **\$geoWithin + \$centerSphere**, converting radius (meters → radians) to target nearby buyers.

Algorithmic Competitions & Achievements

Academic Excellence: Achieved All India Rank 7779 in JEE Mains (IIT-JEE entrance exam).

Hackathon Leadership: Led a team to secure **Runner-Up** at the **Smart India Hackathon (Internal)**.

Algorithmic Problem Solving: Solved 800+ DSA problems and attained a 1750+ rating on **LeetCode**.

Positions of Responsibility

Mentored 300+ students in **Data Structures, Algorithms**, and **full-stack web development**.

Core organizing member of major college fests including **Aurora**, **Infotsav**, **Urja**, and the **Inter-IIIT Fest**.

Led an **NGO education initiative** focused on teaching underprivileged children.