

Yash Agarwal

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EDUCATION

Graphic Era Hill University

B.Tech. in Computer Science & Engineering, Honors in ML & AI

Dehradun, India

Aug 2023 – Present

PROJECTS

IoT System with Dual Cloud Backends (Cloud & IoT)

June 2025 – July 2025

- Engineered an automated plant watering system using an ESP8266 microcontroller that logs data to the cloud.
- Implemented two distinct backend versions using Firebase Firestore and Google Apps Script to compare performance.
- Logged and successfully stored over 10,000 unique data points from the sensor during a 30-day test period.

Interactive 3D Resume Platform (Full Stack)

Feb 2025 – May 2025

- Developed a full-stack application enabling users to create and manage resumes via an immersive 3D web interface.
- Built with a React/JavaScript frontend and a secure Node.js/Express backend using JWT for authentication.
- The platform successfully supports real-time editing and is designed to handle over 100 concurrent user sessions.

Scalable Web Crawler API (Backend)

October 2024 – November 2024

- Architected a REST API in Python to trace the "first link" path on Wikipedia, handling complex traversal logic.
- Utilized a tech stack of Flask, Docker, MongoDB for storage, and Redis for caching to build a robust backend service.
- The implementation of Redis caching decreased average API response latency by over 60% under repeated query loads.

TECHNICAL PROFILE

Technical Skills:

- Languages:** Python, Go (Foundational), Java, JavaScript, TypeScript
- Backend:** Node.js, Express, REST APIs, Distributed Systems Concepts
- Frameworks:** Flask, React, Vue.js, Tailwind CSS
- Databases & Caching:** MongoDB, PostgreSQL, Firebase Firestore, Redis
- DevOps & Cloud:** AWS, Docker, Git, CI/CD Practices, Linux/Unix Environments

Soft Skills: Problem-Solving, Collaborative Development, Adaptability, Eager to Learn

CLOUD & PLATFORM PROFICIENCIES

AWS Certified Solutions Architect – Associate

Google Cloud Associate Cloud Engineer

ACADEMIC SUBJECTS

Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems