

Yash Agarwal

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EDUCATION

Graphic Era Hill University

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

Uttarakhand, India

Aug 2023 – Present

EXPERIENCE

Web Developer Intern

Arterns Technologies Private Limited

May 2025 – July 2025

Dehradun, Uttarakhand

- Engineered and maintained backend services for a full-stack Applicant Tracking System (ATS), designing RESTful APIs for student assessment modules.
- Optimized backend performance by integrating a real-time chat API, improving data flow and enhancing user experience on **menticate.com**.
- Collaborated with the engineering team in an Agile environment, participating in code reviews to ensure code quality and adherence to best practices.
- Reduced project timeline overruns by 20% by proactively identifying infrastructure risks and implementing mitigation strategies.

PROJECTS

Wikipedia Path Finder

Oct 2024 – Dec 2024

- **Tech Stack:** Python, Flask, Redis, MongoDB, Docker, RESTful APIs
- Developed a scalable backend service to trace the traversal path from any Wikipedia page to the 'Philosophy' page by recursively parsing links.
- Implemented Redis caching to store frequent paths and containerized the application with Docker, ensuring high availability and faster response times.
- **Outcome:** Optimized pathfinding and parsing runtime by approximately 80%, demonstrating strong problem-solving and system optimization skills.

Interactive 3D Resume Builder

Feb 2025 – May 2025

- **Tech Stack:** Spring Boot, MongoDB, WebSockets, JWT, React
- Architected a microservices-based backend using Spring Boot for a 3D resume visualizer, handling data persistence with MongoDB.
- Implemented secure, token-based user authentication with JWT and enabled real-time collaboration features using WebSockets for seamless multi-user editing.
- **Outcome:** Delivered a highly interactive and personalized resume experience with a robust, scalable backend architecture.

IoT Automatic Plant Watering System

Jun 2025 – Jul 2025

- **Tech Stack:** C++, ESP8266, Firebase (GCP), REST APIs
- Designed an autonomous system integrated with a Google Cloud (Firebase) backend for remote monitoring and management of soil moisture data.
- Developed a secure web portal for Wi-Fi configuration and logged real-time telemetry data to Firebase using token-based authentication via REST APIs.
- **Outcome:** Improved water conservation and achieved a 20% increase in watering efficiency with a scalable, cloud-connected design.

TECHNICAL SKILLS

Backend Languages: Python, Java, Node.js (JavaScript/TypeScript), C++

Frameworks & APIs: Spring Boot, Flask, Node.js, React, Next.js, RESTful APIs

Databases & Caching: MongoDB, Firebase, Redis

DevOps & Cloud: Docker, Git, Postman, CI/CD, Google Cloud Platform (GCP)

Machine Learning: TensorFlow, Keras, scikit-learn, Matplotlib

SOFT SKILLS

Agile Collaboration, Problem-solving, Communication, Teamwork