

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

Software Engineering Intern

Arterns Technologies Private Limited

May 2025 – July 2025

Dehradun, India

- Developed scalable back-end APIs and server-side logic for an Applicant Tracking System handling high-volume requests.
- Implemented secure real-time features (chat, assessment pipelines) ensuring low-latency asynchronous communication.
- Optimized database queries and caching strategies, reducing API response times by 20%.
- Worked in an Agile team, collaborating with designers, QA, and backend developers to deliver production-ready solutions using CI/CD pipelines.

PROJECTS

Wikipedia Path Finder

Oct 2024 – Dec 2024

- **Tech Stack:** Python, Flask, MongoDB, Redis, Docker
- Built a scalable service to compute paths between Wikipedia pages by recursively traversing first links, handling cycles and dead ends.
- Designed efficient caching strategies using Redis, achieving ~80% runtime improvement under high-volume queries.
- Containerized with Docker and optimized request handling for scalability in production-like environments.

IoT Automatic Plant Watering System

Jun 2025 – Jul 2025

- Built an autonomous IoT solution with ESP8266 and soil-moisture sensors for automated irrigation.
- Integrated Firebase with secure token-based authentication for real-time data logging.
- Developed an asynchronous web server for Wi-Fi configuration and remote control.
- Optimized firmware with interrupt-driven sensor handling to reduce latency and power usage.

Interactive 3D Resume Builder

Feb 2025 – May 2025

- Developed a 3D resume visualization tool using React, Three.js, and Spring Boot.
- Implemented JWT authentication and scalable MongoDB backend for secure data storage.
- Enabled real-time collaboration via WebSockets with auto-save and versioning.
- Optimized performance with asset lazy-loading and Docker-based CI/CD deployment.

TECHNICAL SKILLS

Core CS: Data Structures, Algorithms, Operating Systems, DBMS, OOP

Languages: Python, Java, C++, JavaScript, TypeScript

Back-end & Systems: Flask, Node.js, Spring Boot, REST APIs, Redis, Docker

Machine Learning: TensorFlow, Keras, scikit-learn, Pandas, NumPy

Databases: MongoDB, Firebase, SQL

Developer Tools: Git, Azure DevOps, Postman, Linux

SOFT SKILLS

Problem Solving, Scalability Thinking, Collaboration, Communication, Agile/Scrum