

Yash Agarwal

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EDUCATION

Graphic Era Hill University

B.Tech. in Computer Science & Engineering; Honors in ML & AI; CGPA: 8.51/10.0

Uttarakhand, India

Aug 2023 – Present

EXPERIENCE

Web Developer Intern

Arterns Technologies Private Limited

May 2025 – July 2025

Dehradun, Uttarakhand

- Engineered a full-stack Applicant Tracking System (ATS) and student assessment module for **menticate.com** to improve business outcomes.
- Enhanced user experience by integrating a real-time chat API and implementing a site-wide dark theme, collaborating with the design team.
- Implemented the **i18next** library in the **vedichealings.com** Next.js codebase, launching full Spanish language support for a global user base.
- Improved project delivery efficiency by 20% by proactively identifying risks and implementing mitigation strategies in a collaborative Agile environment.

PROJECTS

IoT Automatic Plant Watering System

Jun 2025 – Jul 2025

- **Tech Stack:** ESP8266, Firebase, ESPAsyncWebServer, C++
- Engineered an autonomous IoT system to monitor and manage resources by tracking soil moisture and dispensing water, with a cloud backend for remote data analysis.
- Developed a secure web portal for Wi-Fi configuration and logged real-time telemetry data to Firebase using token-based authentication.
- **Outcome:** Achieved a 20% increase in water conservation efficiency, demonstrating a practical application of technology for sustainable resource management.

Interactive 3D Resume Builder

Feb 2025 – May 2025

- **Tech Stack:** React, Three.js, MongoDB, Spring Boot, WebSockets
- Architected a full-stack application to visualize resume data in an immersive 3D environment, offering an innovative and engaging user interface.
- Implemented secure JWT authentication and real-time collaboration features using WebSockets, enabling seamless multi-user interaction and editing.
- **Outcome:** Delivered a novel and highly interactive platform that increased user engagement, showcasing an alternative to traditional data presentation.

Wikipedia Path Finder

Oct 2024 – Dec 2024

- **Tech Stack:** Python, Flask, BeautifulSoup, Redis, MongoDB, Docker
- Developed a backend service to trace and analyze complex data pathways on Wikipedia, algorithmically navigating from a source page to a destination.
- Integrated Redis caching to store frequent paths and utilized Docker for containerization, ensuring a scalable and resilient system architecture.
- **Outcome:** Optimized pathfinding and data parsing runtime by approximately 80%, significantly improving processing efficiency and lowering potential infrastructure costs.

TECHNICAL SKILLS

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

Frameworks: React, Next.js, Node.js, Spring Boot, Flask

Databases & Storage: MongoDB, Firebase, Redis

Developer Tools: Git, Docker, Postman, BeautifulSoup

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

SOFT SKILLS

Agile Collaboration, Cross-Functional Teamwork, Problem-Solving, Communication