Yash Agarwal

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EDUCATION

Graphic Era Hill University *Uttarakhand, India*
B.Tech. in Computer Science & Engineering; Honors in ML & AI *Aug 2023 – Present*

EXPERIENCE

Web Developer Intern *May 2025 – July 2025*
Arterns Technologies Private Limited *Dehradun, Uttarakhand*
- Delivered business impact by engineering a full-stack Applicant Tracking System (ATS) and student assessment module for **menticate.com**.
- Enhanced user experience by integrating a real-time chat API and implementing a site-wide dark theme in collaboration with cross-functional teams.
- 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, showcasing the use of digital technology to develop sustainable and efficient solutions.

Interactive 3D Resume Builder *Feb 2025 – May 2025*
- **Tech Stack:** React, Three.js, MongoDB, Spring Boot, WebSockets
- Pioneered an innovative full-stack application to visualize data in an immersive 3D environment, demonstrating an ability to generate original ideas.
- 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, providing an original alternative to traditional data presentation.

Wikipedia Path Finder *Oct 2024 – Dec 2024*
- **Tech Stack:** Python, Flask, BeautifulSoup, Redis, MongoDB, Docker
- Developed a resilient backend service to trace and analyze complex data pathways on Wikipedia, algorithmically navigating from a source to a destination.
- Integrated Redis caching and Docker containerization to build a scalable and efficient system architecture capable of handling high loads.
- **Outcome:** Analyzed a complex pathfinding problem and engineered a solution that improved data processing efficiency by 80%, reducing 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

Problem-Solving, Communication & Presentation, Agile Collaboration, Teamwork, Resilience