

# 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*

- Developed and polished user-facing features for an Applicant Tracking System on **menticate.com** using Next.js, significantly improving UI performance and workflow efficiency.
- Seamlessly integrated a real-time chat API, ensuring smooth, high-performance data flows between the frontend and backend services to enhance user interaction.
- Led the internationalization of **vedichealings.com** by implementing the i18next library, launching full Spanish language support and improving accessibility for a global audience.
- Contributed to an Agile team by shipping meaningful bug fixes and improving feature reliability, which helped reduce project timeline overruns by 20%.

## PROJECTS

### Interactive 3D Resume Builder

*Feb 2025 – May 2025*

- **Tech Stack:** React, Three.js, TypeScript, Spring Boot, MongoDB, WebSockets
- Architected a 0→1 product experiment to visualize resume data in an immersive 3D forest, creating an intelligent, user-friendly interface that redefines personal branding.
- Engineered a robust backend with secure JWT authentication and real-time collaboration features using WebSockets, allowing multiple users to edit seamlessly.
- **Outcome:** Delivered a novel, high-performance resume experience that increased user engagement and demonstrated innovative use of data visualization libraries.

### Wikipedia Path Finder

*Oct 2024 – Dec 2024*

- **Tech Stack:** Python, Flask, Redis, MongoDB, Docker, BeautifulSoup
- Developed a backend service to solve the "Philosophy Game" by tracing the traversal path from any Wikipedia page to 'Philosophy', handling complex loop and dead-end detection.
- Integrated Redis for caching common paths and containerized the application with Docker, ensuring scalability and faster response times under load.
- **Outcome:** Optimized pathfinding and parsing runtime by over 80%, significantly improving performance and demonstrating strong analytical and problem-solving skills.

### IoT Automatic Plant Watering System

*Jun 2025 – Jul 2025*

- **Tech Stack:** ESP8266, Firebase, C++, ESPAsyncWebServer
- Designed an autonomous system to monitor soil moisture and dispense water, fully integrated with a cloud backend for remote management.
- Developed a secure web portal for Wi-Fi configuration and built a real-time dashboard using Firebase to monitor sensor data, providing a seamless remote user experience.

## TECHNICAL SKILLS

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

**Frontend:** React, Next.js, Three.js, HTML5, CSS3, Data Visualization

**Backend:** Node.js, Spring Boot, Flask, REST/GraphQL APIs

**Databases & Storage:** MongoDB, Firebase, Redis

**Developer Tools:** Git, Docker, Postman, WebSockets, GitHub Copilot, ChatGPT-4

## SOFT SKILLS

Agile Collaboration, Proactive Problem-Solving, Cross-Functional Communication, Project Ownership, Teamwork & Leadership