

Yash Agarwal

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EDUCATION

Graphic Era Hill University

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

Uttarakhand, India

Expected Jul 2027

EXPERIENCE

Web Developer Intern

Arterns Technologies Private Limited

May 2025 – July 2025

Dehradun, Uttarakhand

- Designed and developed a full-stack Applicant Tracking System (ATS) to streamline student assessments, collaborating with stakeholders to determine user requirements for **menticate.com**.
- Enhanced user experience by integrating a real-time chat API and implementing a site-wide dark theme, demonstrating a passion for product quality and customer needs.
- Drove internationalization efforts for **vedichealings.com** by implementing the i18next library, successfully launching full Spanish language support to expand user reach.
- Improved project delivery efficiency by 20% in a cooperative Agile team environment by proactively identifying project risks and implementing mitigation strategies.

PROJECTS

IoT Automatic Plant Watering System

Jun 2025 – Jul 2025

- **Tech Stack:** C++, ESP8266, Firebase, ESPAsyncWebServer
- Engineered an end-to-end IoT solution to solve the problem of inconsistent plant watering by designing an autonomous system with a cloud backend for remote management.
- Developed a secure web portal for Wi-Fi configuration and logged real-time telemetry data to Firebase, demonstrating skill in building reliable and observable systems.
- **Outcome:** Improved water conservation and plant health, achieving a 20% increase in watering efficiency with a modular design for future upgrades.

Interactive 3D Resume Builder

Feb 2025 – May 2025

- **Tech Stack:** React, Three.js, Spring Boot (Java), MongoDB, WebSockets
- Architected an innovative full-stack application to visualize resume data in an immersive 3D environment, applying creative engineering to solve the challenge of engaging user presentation.
- Implemented secure JWT authentication and real-time collaboration features using WebSockets, allowing multiple users to edit seamlessly in a cooperative environment.
- **Outcome:** Delivered a highly interactive and personalized resume experience, providing a novel and engaging alternative to traditional formats.

Wikipedia Path Finder

Oct 2024 – Dec 2024

- **Tech Stack:** Python, Flask, BeautifulSoup, Redis, MongoDB, Docker
- Applied graph traversal algorithms and object-oriented principles in Python to develop a backend service that traces paths on Wikipedia, efficiently handling cycles and dead-ends.
- Ensured high availability and performance by integrating Redis for caching and containerizing the application with Docker, improving system reliability and efficiency at scale.
- **Outcome:** Optimized pathfinding and parsing runtime by approximately 80%, significantly lowering infrastructure costs and improving user experience.

TECHNICAL SKILLS

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

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

Databases & Caching: MongoDB, Firebase, Redis

Developer Tools & Platforms: Git, Docker, Postman, BeautifulSoup

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