

Yash Agarwal

+91-90276-01476 | 190e785@gmail.com | linkedin.com/in/yash-agarwal-190e785 | github.com/190-785

EDUCATION

Graphic Era Hill University

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

Uttarakhand, India

Aug 2019 – May 2023

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**.
- Integrated a real-time chat API and implemented a site-wide dark theme to enhance the user experience.
- Implemented the i18next library in the **vedichealings.com** Next.js codebase, launching full Spanish language support.
- Reduced project timeline overruns by 20% by proactively identifying risks and implementing mitigation strategies in an Agile environment.

PROJECTS

IoT Automatic Plant Watering System

Jun 2025 – Jul 2025

- **Tech Stack:** ESP8266, Firebase, ESPAsyncWebServer, C++
- Identified user needs for efficient home plant care and developed a product vision for an autonomous, cloud-managed watering system.
- Analyzed market trends in IoT home automation to design a scalable and secure solution with a web portal for remote configuration and data monitoring.
- **Outcome:** Delivered a product that improved water conservation and plant health, achieving a 20% increase in watering efficiency.

Interactive 3D Resume Builder

Feb 2025 – May 2025

- **Tech Stack:** React, Three.js, MongoDB, Spring Boot, WebSockets
- Defined a product strategy to disrupt traditional resume formats by creating an immersive 3D visualization application to increase user engagement.
- Partnered with engineering to build a feature-rich platform including secure JWT authentication and real-time collaboration using WebSockets.
- **Outcome:** Shipped a novel product that provided a highly interactive and personalized resume experience, validated through positive user feedback.

Wikipedia Path Finder

Oct 2024 – Dec 2024

- **Tech Stack:** Python, Flask, BeautifulSoup, Redis, MongoDB, Docker
- Analyzed performance bottlenecks in data parsing to design a backend service that traces Wikipedia link paths with loop and dead-end detection.
- Drove the technical strategy to integrate Redis caching and Docker containerization, ensuring product scalability and faster response times.
- **Outcome:** Successfully launched a service with an 80% reduction in pathfinding runtime, significantly lowering infrastructure costs and improving user experience.

TECHNICAL SKILLS

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

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

Databases & Storage: MongoDB, Firebase, Redis

Developer Tools: Git, Docker, Postman, Agile/Scrum

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

SOFT SKILLS

Agile Collaboration, Leadership, Stakeholder Management, Communication, Problem-solving