

# Yash Agarwal

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## EDUCATION

### Graphic Era Hill University

B.Tech. in Computer Science & Engineering (Honors in ML & AI)

Dehradun, Uttarakhand

Aug 2021 – Jun 2025 (Expected)

## EXPERIENCE

### Web Developer Intern

Arterns Technologies Private Limited

Dehradun, Uttarakhand

May 2024 – Jul 2024

- Contributed to the full-stack development of an Applicant Tracking System (ATS) and student assessment module, participating in coding, implementation, and integration phases.
- Applied problem-solving skills to enhance user experience by integrating a real-time chat API and implementing a site-wide dark theme for **menticate.com**.
- Demonstrated ability to learn and apply new technologies by implementing the i18next library to launch full Spanish language support for **vedichealings.com**.
- Operated within an Agile team framework, proactively identifying risks and implementing mitigation strategies to support the team in reducing project timeline overruns by 20%.

## PROJECTS

### Interactive 3D Resume Builder

Feb 2024 – May 2024

- **Tech Stack:** React, Spring Boot (Java), Three.js, MongoDB, WebSockets
- Architected a full-stack application to transform traditional resume data into an immersive 3D experience, demonstrating a passion for developing novel solutions.
- Engineered a secure backend using Spring Boot and JWT authentication, alongside a WebSocket integration for real-time multi-user collaboration, tackling ambiguous design challenges.
- Wrote and maintained clean, organized code for both frontend and backend components, ensuring high-quality and scalable software for a unique user-centric application.

### Wikipedia Path Finder

Oct 2023 – Dec 2023

- **Tech Stack:** Python, Flask, Redis, MongoDB, Docker
- Developed and containerized a backend service to solve the "Philosophy" problem on Wikipedia by recursively navigating the first link of any given page.
- Implemented critical thinking to design robust loop and dead-end detection algorithms, ensuring the pathfinding logic was reliable and efficient.
- Leveraged Redis for caching common paths, significantly improving response times and applying knowledge of system design to a real-world data challenge.

### IoT Automatic Plant Watering System

Jun 2023 – Jul 2023

- **Tech Stack:** C++, ESP8266, Firebase
- Designed and built an autonomous system using C++ on an ESP8266 to monitor soil moisture and dispense water, showcasing commitment to learning through personal projects.
- Developed a secure web portal for Wi-Fi configuration and integrated with Firebase for remote data logging and system management, demonstrating end-to-end development skills.
- Ensured code quality and reliability through systematic testing of both hardware and software components, resulting in a 20% increase in watering efficiency.

## TECHNICAL SKILLS

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

**Frameworks & Libraries:** Spring Boot, Flask, React, Next.js, Node.js, TensorFlow

**Databases & Tools:** MongoDB, Firebase, Redis, Git, Docker, Postman, Google Workspace

## PROFESSIONAL SKILLS

**Problem Solving:** Critical Thinking, Navigating Ambiguity, Algorithmic Logic

**Collaboration:** Teamwork, Agile Methodologies, Independent Contribution, Communication