# Yash Agarwal

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

## 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*

- Engineered a full-stack Applicant Tracking System (ATS), designing and implementing the backend logic, database schemas, and RESTful APIs for the student assessment module.
- Enhanced platform functionality by integrating a real-time chat API and launching full Spanish language support using i18next in the Next.js frontend.
- Assisted in troubleshooting technical issues and participated in code reviews, contributing to improved code maintainability and adherence to best practices.
- Reduced project timeline overruns by 20% by proactively identifying risks and implementing mitigation strategies in an Agile collaboration environment.

## PROJECTS

**Wikipedia Path Finder**                                                                    *Oct 2024 – Dec 2024*

- **Tech Stack:** Python, Flask, Redis, MongoDB, Docker
- Developed a scalable backend service to trace traversal paths on Wikipedia, architected to handle loop and dead-end detection efficiently.
- Containerized the application using Docker for consistent deployment and integrated Redis for caching, significantly boosting scalability and response times under load.
- **Outcome:** Optimized pathfinding and parsing runtime by approximately 80%, demonstrating strong skills in backend optimization and infrastructure management.

**Interactive 3D Resume Builder**                                                            *Feb 2025 – May 2025*

- **Tech Stack:** Spring Boot, MongoDB, WebSockets, React, Three.js
- Architected a full-stack application with a Java Spring Boot backend to visualize resume data in an immersive 3D environment.
- Implemented secure JWT authentication and real-time collaboration features using WebSockets, showcasing an understanding of robust API and backend service development.
- **Outcome:** Delivered a highly interactive and personalized resume experience, proving capabilities in building complex, feature-rich backend systems.

**IoT Automatic Plant Watering System**                                                      *Jun 2025 – Jul 2025*

- **Tech Stack:** ESP8266, Firebase (GCP), C++
- Designed and built an autonomous system with a cloud backend on Firebase (GCP) for remote monitoring and management of soil moisture telemetry data.
- Developed a secure web portal for Wi-Fi configuration and used token-based authentication to log real-time data, ensuring system integrity and reliability.

## TECHNICAL SKILLS

**Backend Languages**: Python, Node.js, Java, C++
**Backend Frameworks**: Flask, Spring Boot, Node.js
**Databases & Caching**: MongoDB, Redis, Firebase
**Infrastructure & DevOps**: Docker, Git, Postman, CI/CD (Familiarity)
**Cloud Platforms**: GCP (via Firebase), Familiarity with AWS & DigitalOcean
**Frontend**: JavaScript, TypeScript, React, Next.js

## SOFT SKILLS

Agile Collaboration, Problem-solving, Technical Communication, Teamwork