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

- Developed a full-stack Applicant Tracking System (ATS) with automated resume parsing and student assessment module for **menticate.com**, building Node.js backend APIs with Firebase authentication and database integration.

- Integrated Socket.io and Firebase for real-time chat functionality, and architected a reusable theme system enabling seamless site-wide dark mode across multiple pages and components.
- Led the development of **we-are-on-leaf.vercel.app** and implemented i18next internationalization across 8+ pages in **vedichealings.com** Next.js codebase, delivering complete Spanish language support.
- Reduced project timeline overruns by 20% by identifying and resolving critical API authentication issues and implementing proactive risk mitigation strategies in an Agile environment.

PROJECTS

Final Year Project Management Portal
Aug 2025 – Present

- **Tech Stack:** Next.js, Firebase, Tailwind CSS, Node.js
- Architected and developed the backend infrastructure for a comprehensive project management system serving 1,500+ students, scaling to 3,000+ users across multiple campuses by 2026, managing 400+ project teams across multiple evaluation phases.
- Designed a multi-role access control system with distinct dashboards for students, administrators, faculty, panelists, and external reviewers, implementing secure Firebase authentication and real-time email notification workflows.
- **Outcome:** Deployed production-ready platform scheduled for official university-wide adoption, streamlining project evaluation workflows and enabling faculty to schedule meetings with automated team notifications.

Interactive 3D Resume Builder
Feb 2025 – May 2025

- **Tech Stack:** React, Three.js, MongoDB, Spring Boot, WebSockets
- Architected a full-stack application to visualize resume data in an immersive 3D forest environment, offering a unique and engaging user interface.
- Implemented secure JWT authentication, auto-save versioning, and real-time collaboration features using WebSockets to allow for seamless multi-user editing.
- **Outcome:** Delivered a highly interactive and personalized resume experience, increasing user engagement and providing a novel alternative to traditional formats.

Wikipedia Path Finder
Oct 2024 – Dec 2024

- **Tech Stack:** Python, Flask, BeautifulSoup, Redis, MongoDB, Docker
- Developed a backend service to trace the traversal path from a given Wikipedia page to the 'Philosophy' page by recursively clicking the first link, detecting loops and dead-ends.
- Integrated Redis caching to store frequent paths and Docker for containerization, ensuring scalability and faster response times under load.
- **Outcome:** Optimized pathfinding and parsing runtime by approximately 80%, 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, BeautifulSoup, Postman
Machine Learning: Matplotlib, scikit-learn, TensorFlow, Keras

Soft Skills

Agile Collaboration, Problem-solving, Communication, Teamwork