Yash Agarwal

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EDUCATION

Graphic Era Hill University *Uttarakhand, India*
B.Tech. in Computer Science & Engineering; Honors in ML & AI *Aug 2023 – July 2027*

EXPERIENCE

Full-Stack Web Developer Intern *May 2025 – July 2025*
Arterns Technologies Private Limited *Dehradun, Uttarakhand*

- Developed full-stack Applicant Tracking System (ATS) with automated resume parsing and student assessment module for **menticate.com**. Built Node.js backend APIs with Firebase authentication and database integration.
- Engineered real-time chat functionality using Socket.io integrated with Firebase, and architected reusable theme system enabling seamless site-wide dark mode across multiple pages and components.
- Led 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, 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 scalable backend infrastructure supporting 1,500+ concurrent users for university-wide final year project management system. Implemented complex data modeling for 400+ project teams with multi-phase workflow tracking and evaluation.
- Engineered multi-role access control system with distinct dashboards for students, administrators, faculty, panelists, and external reviewers. Integrated Firebase authentication with real-time email notification workflows.
- **Outcome:** Deployed production-ready platform scheduled for official university-wide adoption, streamlining project evaluation workflows and enabling automated meeting scheduling with team notifications. Platform scaling to 3,000+ users across multiple campuses starting 2026.

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

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

Wikipedia Path Finder *Oct 2024 – Dec 2024*

- **Tech Stack:** Python, Flask, BeautifulSoup, Redis, MongoDB, Docker
- Developed distributed backend service tracing traversal path from given Wikipedia page to 'Philosophy' page by recursively clicking first link, implementing intelligent loop detection and dead-end handling.
- Implemented two-tier caching strategy utilizing Redis for frequent paths and Docker containerization, ensuring horizontal scalability and faster response times under load.
- **Outcome:** Achieved 80% reduction in pathfinding and parsing runtime through optimization, 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