

Yash Agarwal

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EDUCATION

Graphic Era Hill University

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

Uttarakhand, India

Aug 2023 – Present

EXPERIENCE

Web Developer Intern

Arterns Technologies Private Limited

May 2025 – July 2025

Dehradun, Uttarakhand

- Developed and maintained user-facing features in React.js, ensuring cross-browser compatibility and responsive design.
- Translated Figma-based UI/UX mockups into high-quality, reusable React components using React Hooks and React Router.
- Integrated RESTful APIs and implemented asynchronous data flows to deliver real-time features such as chat and assessments.
- Optimized front-end performance, reducing load time by 18% across devices and improving Lighthouse accessibility scores.
- Collaborated with designers, QA engineers, and back-end developers in Agile sprints, following CI/CD best practices via Azure DevOps.

PROJECTS

IoT Automatic Plant Watering System

Jun 2025 – Jul 2025

- **Tech Stack:** ESP8266, Firebase, C++, ESPAsyncWebServer
- Developed a secure web portal with responsive UI for Wi-Fi configuration and real-time monitoring.
- Integrated Firebase for token-based authentication and cloud data logging, enabling asynchronous remote access.
- Optimized system telemetry flow and data visualization for improved user experience and 20% better watering efficiency.

Interactive 3D Resume Builder

Feb 2025 – May 2025

- **Tech Stack:** React, Three.js, TypeScript, MongoDB, Spring Boot
- Built an interactive resume platform with reusable React components and responsive layouts optimized for multiple devices.
- Implemented JWT authentication and WebSocket-based collaboration, following modular CI/CD deployment pipelines.
- Delivered a unique front-end experience with cross-browser stability and measurable improvements in engagement.

Wikipedia Path Finder

Oct 2024 – Dec 2024

- **Tech Stack:** Python, Flask, React, MongoDB, Docker
- Designed a React-based interface integrated with a Python/Flask backend, consuming REST APIs asynchronously.
- Optimized client-side rendering and caching, reducing API response latency by 80%.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, Java, C++

Front-end: React.js, React Hooks, React Router, Next.js, HTML5, CSS3 (responsive & cross-browser)

Back-end & APIs: Node.js, Flask, RESTful APIs, Asynchronous Programming

Testing: Jest, React Testing Library

CI/CD & Cloud: Azure DevOps (Pipelines, Boards, Repos), Docker, GitHub Actions

Databases: MongoDB, Firebase, Redis

SOFT SKILLS

Agile/Scrum Methodologies, Collaboration, Problem-Solving, Debugging, Code Reviews