

# Yash Agarwal

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## EDUCATION

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### Graphic Era Hill University

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

*Uttarakhand, India*

*Aug 2023 – Present*

## EXPERIENCE

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### 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

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### 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

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**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

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