

Gaurav Upadhyay

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EDUCATION

National Institute of Technology

Bachelor of Technology in Information Technology

Jalandhar, Punjab, India

Nov 2022 – May 2026

INTERNSHIPS & EXPERIENCE

Full Stack Developer

Aug 2023 – Sept 2024

WDMC - NITJ Website Committee

- Developed high-performance Next.js application with SSR and ISR capabilities, achieving 40% faster page load times and reducing server response time by 35% (measured via Next.js Analytics and Vercel)
- Enhanced application performance through Next.js code splitting, dynamic imports, and module optimization, reducing initial bundle size by 60% and TTFB by 23% (verified using Lighthouse and Chrome DevTools)
- Implemented MongoDB aggregation pipelines and Next.js API routes with middleware caching, reducing data fetch times by 83% across 6 key endpoints while optimizing database queries

Web Development Lead

Oct 2023 – Present

Google Developers Groups(formely GDSC) (National Institute of Technology Jalandhar)

- Lead the organization of "HackMol 5.0", with over 3500+ registrations
- Delivered a JavaScript and APIs session ([Watch here](#)) with over 250+ live viewership on YouTube.

PROJECTS

Jiva | MERN, Python, TensorFlow, Scikit-Learn, Google Cloud Platforms [GitHub Link](#)

- Achieved accuracies of **85%**, **90%**, and **95%** in **skin disease**, **symptom-based disease prediction**, and **heart disease identification Machine Learning models**.
- Integrated a **Gemini-powered Health ChatBot**, reducing response time for health queries by **70%**.
- Implemented an **Epidemic Alert System** using **Google Maps API**, alerting users in case of epidemic.

OtakuHub | Node.js, Next.js, MongoDB, WebSockets, Docker [GitHub Link](#)

- Developed a social platform for anime enthusiasts as a hobby project, utilizing **Next.js** for server-side rendering and **Tailwind CSS** for rapid UI development.
- Built a lightweight, secure **RESTful API** using **Node.js** and **Express**, integrated with JWT-based authentication and optimized using query caching and database indexing for consistent 100ms response times.
- Experimented with **serverless functions** on Vercel, reducing server overhead and enabling automatic scaling, achieving sub-3s page load times.
- Implemented real-time data updates with **WebSockets**, enhancing user interactivity, and used **MongoDB** with aggregation pipelines to handle dynamic data processing efficiently.

SageBoard | React, Node.js, WebRTC, Python, NLP, MongoDB, AWS S3

- Developed a boardroom interview simulation platform using **React**, **Node.js**, and **WebRTC** for a seamless **video call interface** and virtual interactions.
- Implemented an **automated answer scoring system** with **NLP algorithms** and **Python**, ensuring objective candidate evaluation.
- Designed a **dynamic question selection system** leveraging **MongoDB** for storing and retrieving interview questions based on candidate expertise.

SKILLS/ ACHIEVEMENTS

• Coding Profiles:

- LeetCode** ; Knight (1911 max), solved 250+ questions. [LeetCode Profile](#)
- Codeforces** ; Specialist (1410 max). [Codeforces Profile](#)

• Languages: C/C++, JavaScript, Python, TypeScript, Flutter

• Frameworks/Databases/Tools: React, Node.js, Express.js, MongoDB, Git/Github, Docker, OpenCV, Unix/Linux

• Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Web Development, Machine Learning, Computer Networks

• Achievements:

- College Finalist in **Smart India Hackathon 2023, 2024**.
- Ranked in the top 10 out of 400+ submissions in HackMol 5.0.
- Ranked top 6 out of 200+ participants in college level HackerRank Coding Contest.
- Contributed to various Open Source projects like RocketChat, Hypr etc.