

DEVESH SINGH

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Technical Skills

Programming Language: Python , C++ , Java , JavaScript , NodeJS , HTML , CSS

Technology: React , SQL , MongoDB , Deep Learning , AWS , Networking , Github

Soft Skill: Problem Solver, Leadership, Teamwork, Time Management, Quick Learning

Summary

Full-Stack Developer with expertise in building scalable web applications, optimizing backend performance, and integrating cloud solutions. Skilled in JavaScript, Python, AWS, and database management, with hands-on experience in serverless computing, automation, and AI-driven development. Adept at problem-solving, collaborating in cross-functional teams, and delivering efficient solutions. Interested in DevOps, cloud computing, and creating seamless user experiences.

Projects

Automatic PR Review System: Implemented a streamlined PR evaluation process utilizing **Next.js** and **GitHub OAuth** for authentication; improved coding standards with actionable AI-generated insights, eliminating inconsistencies in over 50 submissions. [Link](#) September 2024 - October 2024

- **GitHub OAuth Integration:** Authenticated 10+ users, storing access tokens in MongoDB.
- **Repository Selection:** Enabled selection of 25+ repositories, with webhooks handling real-time PR events.
- **AI-Driven Review:** Processed 50+ PRs, using Gemini-1.5-flash AI to analyze thousands of lines of code.
- **Automated Feedback:** Reduced manual review time by 40%, posting AI-generated feedback on GitHub PRs.

Serverless Image Processing and Compression System: Developed an image processing and compression system using **Next.js** and **AWS Lambda**, optimizing storage and bandwidth. [Link](#) June 2024 - August 2024

- Reduced image sizes by 83.06%, achieving an average compression ratio of 8.95x.
- Processed 103 images with an average compression time of 2.3s per image.
- Designed a scalable system handling high-volume image processing efficiently.

Experience

Backend Developer | E-Cell, VIT Bhopal University

Nov 2024 - Present

Developed the official E-Cell website for the E-Summit event to enhance engagement and streamline event management.

- Develops and maintains backend systems to support E-Cell's web applications.
- Implementing APIs and database management for seamless user experience.
- Collaborates with a 5-member frontend team to enhance system performance.

Technical Co-Lead | Robotics Club VIT Bhopal University

Feb 2024 - Dec 2024

Led a technical seminar on object avoidance robots in Webots simulation for an audience of 65 attendees.

- Coordinated a robot simulation competition with 40 participants.
- Evaluated 30+ robot programs, judging based on efficiency and path accuracy.

Education

VIT Bhopal University

Nov 2022 - June 2026

Bachelor of Computer Science and Engineering

Bhopal, Madhya Pradesh