

Priyanshu Kumar Singh

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Education

Bachelor of Computer Application (BCA)

Expected Grad: 2027

Dehradun Institute of Technology, Dehradun, India

Relevant Coursework: Data Structures & Algorithms, Database Management, Software Engineering, Computer Networking, Operating Systems

Projects

- **PlanIt: Notes App** *MongoDB, Express.js, React.js, Node.js, TailwindCSS, Cloudinary, Multer, JWT, Auth0, CI/CD*
[GitHub](#) | [Live](#)

- Engineered a full-stack Notes App with JWT and Auth0 authentication, securing user data for 50+ active users.
- Implemented image upload functionality using Multer and Cloudinary, reducing image load times by 40% compared to base64 encoding.
- Deployed a scalable backend on Railway and a CDN-fronted frontend on Vercel, achieving a 95% Lighthouse performance score.
- *Result: The app handles over 100+ CRUD operations daily with no downtime.*

- **Shortly: URL Management** *Next.js, Node.js, Express.js, TypeScript, Tailwind CSS, PostgreSQL, Prisma, NextAuth*
[GitHub](#) | [Live](#)

- Built a full-stack URL shortening platform that enables users to instantly generate secure, shareable links.
- real-time analytics was implemented to track link clicks, geographic data, and user engagement metrics.
- Designed a clean, responsive user interface with Tailwind CSS for seamless performance across all devices.
- Secure user authentication and session management using NextAuth with PostgreSQL integration.
- Optimized database queries using Prisma ORM, ensuring fast data access and scalability.
- *Result: Enabled 1,000+ shortened links with real-time analytics and 99% uptime.*

- **Friday: AI Assistant** *Python, OpenAI API, Whisper, Edge TTS, Porcupine, Playwright*
[GitHub](#)

- Developed a voice-activated AI assistant using GPT for command processing.
- Automated Task Execution with Playwright.
- Designed a user-friendly and efficient interface.
- Integrates 3+ APIs (OpenAI, Whisper, Edge TTS).

Technical Skills

Programming Languages: TypeScript (Proficient), JavaScript (Proficient), Python (Proficient), C++ (Intermediate)

Frontend: Next.js, React.js, HTML5, CSS, Tailwind CSS, Vite

Backend: Flask, Node.js, Express.js, REST APIs

Database: MongoDB, MySQL, PostgreSQL