Priyanshu Kumar Singh

Gmail | GitHub | X (Twitter)

Technical Skills

Programming Languages: TypeScript, JavaScript, Python
Frontend: Next.js, React.js, Tailwind CSS
Backend: FastAPI, Node.js, Express.js, GitHub Actions, Docker
Database: MongoDB, MySQL, PostgreSQL, Redis

Projects

- **SkillForge: AI Assisted Job Portal** *FastAPI, Next.js, PostgreSQL, Redis, pgvector, OpenAI API, TypeScript*
  GitHub | Live

  – Designed an explainable, AI-assisted matching system that avoids black-box scoring by combining deterministic logic with semantic embeddings.

  – Implemented JWT-based authentication using HttpOnly cookies to mitigate XSS.

  – Implemented PostgreSQL full-text search using tsvector with weighted ranking.

  – Designed secure PDF upload pipeline using S3-compatible storage.

  – Integrated OpenAI API to extract structured candidate data from raw resume text and Stored normalized output in JSONB for flexible querying and future extensibility.

  – Implemented event-driven processing: new job postings trigger background tasks instead of synchronous computation.

  – Implemented logic-first skill gap detection by comparing job requirements with candidate profiles.

  – Implemented Redis-based rate limiting (token bucket / sliding window) to prevent abuse on auth and search endpoints.

  – Moved AI parsing and matching logic out of request-response cycle using background tasks to improve latency and reliability.

- **PlanIt: Notes App** *MongoDB, Express.js, React.js, Node.js, JWT, Auth0*
  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 on Vercel, achieving 100% uptime.

Education

Bachelor of Computer Application (BCA)   *Expected Grad: 2027*
Dehradun Institute of Technology, Dehradun, India
Relevant Coursework: Data Structures & Algorithms, Database Management, Computer Networking