Ritesh Pal

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Projects

- **Social Media Backend** ⌗ GitHub Link　　　　　　　　　　　　　　　　　　　　**August 2025**
  - Developed secure authentication system with JWT and OTP verification for user registration and recovery.
  - Engineered social APIs for posts , nested comments , and likes , enabling full CRUD and engagement.
  - Built user management with paginated search , connections , and follower systems for a complex social graph.
  - Architected a dynamic content system with personalized , paginated user feeds , and public post browsing.
  - Designed a structured RESTful API with distinct modules for core functionalities like posts , comments , and connections.
  - **Tech:** Node.js with Express.js, MongoDB, JWT & Email Service, Postman

- **SaaS Web-Application (Quick.AI)** ⌗ GitHub Link　　　　　　　　　　　　　　　**July 2025**
  - Developed a SaaS AI image editor with background removal and object erasing via Cloudinary's AI APIs.
  - Built a full-stack app using React, Node.js, Express, and PostgreSQL, optimized for performance and scalability.
  - Implemented role-based authentication and subscription logic via Clerk for managing free and premium tiers.
  - Designed a responsive dashboard UI for uploading, editing, and managing user media content.
  - Integrated prompt-based object removal using Clip Drop's GenAI to enhance user control and automation.
  - **Tech:** React.js, Node.js, Express, PostgreSQL, Cloudinary, Clerk, JWT, Vercel

- **Movie Ticket Booking Platform - BookShow** ⌗ GitHub Link　　　　　　　　　　**June 2025**
  - Developed the frontend using React ensuring a maintainable and standardized project foundation.
  - Implemented UI styling with SCSS, enabling modular, maintainable component-level styles and responsive layouts.
  - Handled interactive UI components and client-side logic using JavaScript in a React environment, facilitating dynamic user experiences.
  - Leveraged Git for version control, actively collaborating on debugging and testing.
  - **Tech:** React, SCSS, JavaScript, Postman, Git

Certificates

Ethical Hacking course by IIT KGP (Among Top 5%)	**October 2024**
NPTEL — Certificate Link	
Complete Machine Learning and Data Science Program by GFG	**August 2024**
GFG – Certificate Link	
Dynamic Programming, Greedy Algorithms	**May 2024**
Coursera — Certificate Link	

Skills

Languages:　C++, JavaScript(ES6+), Python, HTML5, CSS

Developer Tools: Git, GitHub, Ubuntu, Docker, Postman, MySQL, PostgreSQL, MLOps

Soft Skills: Strategic Problem-Solver, Team Player, Curious and driven, Adaptability

Frameworks & Libraries: React.js, Node.js, Express.js, Redux toolkit, MongoDB, REST APIs

Extra-curricular

- Worked with an NGO Mahila Unnati Sansthan, India for two months.　　　　　　**June – July 2023**
- Engaged in community service initiatives as an active member of Sewa Bharti.　**December 2017 – March 2020**

Education

Lovely Professional University	**2022 – 2026**
Computer Science and Engineering — CGPA: 8.55	Phagwara, Punjab
Swami Vivekanand Saraswati Vidhya Mandir	**2019 – 2021**
Higher Secondary (Science) - Percentage: 95%	Sahibabad, Uttar Pradesh
Swami Vivekanand Saraswati Vidhya Mandir	**2017 – 2019**
Secondary School (Science) - Percentage: 95.6%	Sahibabad, Uttar Pradesh