# Harsh Pal

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## Experience

**REV**                                                                 Sep 2024 - Mar 2025
*Technologies: TypeScript, React.js, Node.js, Express.js, MongoDB, JWT*

- Developed and enhanced user interface components using React.js, improving the user experience of web applications.
- Collaborated closely with cross-functional teams to implement new features and ensure seamless functionality.
- Participated in code reviews, applied feedback, and ensured clean, maintainable code.

**Maangler - Educational Technical Platform**                           Aug 2023 - Dec 2023
*Technologies: Node.js, Express.js, MongoDB, Redis, Socket.IO*

- Developed and optimized a backend REST API supporting 10+ course domains, improving response time by 30%.
- Implemented real-time chat with Socket.IO, managing 20+ concurrent users across 5 channels with minimal latency.
- Automated lead generation using data analytics, boosting new customer leads by 40%.

## Projects

**Twitter Bot for Automated Daily Tweets**                              Feb 2025
*Technologies: Node.JS, Express, TypeScript, MongoDB, GitHub Actions*          [Source Code]

- Created a Twitter bot that automates daily tweets using AI-generated content based on GitHub commits.
- Integrated the Llama-3.3-70B-Versatile model via Groq Cloud API to generate engaging tweets summarizing recent coding activities.
- Used GitHub Actions to schedule and deploy tweets automatically, ensuring hands-free operation.

**Debatable**                                                           Nov 2024
*Technologies: Next.js, React.js, Node.js, Express.js, PostgreSQL, Prisma ORM, TypeScript*   [Source Code]

- Developed a structured discussion platform enabling users to engage in debates with threaded conversations and voting mechanisms.
- Designed a modular backend using Prisma ORM and PostgreSQL for efficient data management.
- Implemented moderation tools and user access control to maintain discussion quality.

**Customer Review Tracking Widget**                                     Sep 2024
*Technologies: HTML, CSS, JavaScript, Node.js, Express.js, MongoDB*            [Source Code]

- Developed a customizable review widget that can be integrated into any website to collect and display customer feedback.
- Designed an admin panel with detailed analytics and moderation capabilities for managing reviews efficiently.
- Optimized data handling and UI interactions to enhance user experience and engagement.

**CodeZen**                                                             Feb 2024
*Technologies: Next.js, MongoDB, Express.js, Node.js*                          [Source Code]

- Built a web-based code editor supporting multiple languages with a clean, user-friendly interface.
- Designed a secure database storage system for persisting user projects and code snippets.
- Focused on accessibility and responsiveness, ensuring seamless usage across devices.

## Technical Skills

**Languages:** JavaScript, TypeScript, Python, C++, SQL, HTML, CSS
**Frameworks:** Node.js, Express.js, React.js, Next.js
**Databases:** MySQL, MongoDB, PostgreSQL
**Tools & Technologies:** Git, Redis, WebSockets, REST APIs, JWT, Prisma ORM, OpenAI API

## Education

**Guru Gobind Singh Indraprastha University**                           Delhi, India
Bachelor of Technology - Information Technology; CGPA: 9.01                    2024
*Relevant Coursework:* DSA, DBMS, OS, OOP, Networks, Web Development