

Prateek Dwivedi

Full Stack Developer focused on APIs, backend systems, and performance

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SUMMARY

Full Stack Developer and final-year Computer Science student at Chandigarh University. Experienced in building production-ready web applications, REST APIs, and browser extensions with a focus on clean architecture and scalability. Proven track record of developing modular systems, optimizing database performance, and implementing secure authentication protocols.

CORE ENGINEERING CONCEPTS

Architecture: RESTful Principles, MVC Pattern, Backend Logic Design, API Design

Security & Web: Authentication Flows (JWT/OAuth), CORS, Web Security, DOM Manipulation

Performance: Query Optimization, Indexing, Debouncing, Lazy Loading, Manifest V3

WORK EXPERIENCE

Rmak Solutions

May 2024 – Jun 2024

Software Development Intern

Mohali, India

- Engineered modular and responsive web components using React.js and Tailwind CSS to standardize UI consistency.
- Architected scalable RESTful API endpoints using Node.js and Express.js to facilitate seamless client-server communication.
- Refined database efficiency through Mongoose schema implementation and optimized query indexing for faster retrieval.
- Implemented JWT-based authentication to secure sessions and managed AWS cloud configurations for deployment testing.

PROJECTS

Perfume-Gallery | [Live Link](#) | *React (Vite), Node.js, Express, MongoDB*

2025

- Architected a full-stack e-commerce solution for 50+ artisan fragrances with real-time inventory tracking.
- Integrated secure session management using JWT and bcryptjs hashing with global state managed via Context API.
- Optimized discovery by implementing a 300ms debounced search logic to minimize redundant API overhead during browsing.
- Developed a product seeding tool in Node.js to populate 100+ production-ready entries for development efficiency.

VoEx (Voice-Based Expense Tracker) | [Live Link](#) | *React, Node.js, Web Speech API, MongoDB*

2025

- Engineered a speech-enabled dashboard achieving high transcription accuracy via the Web Speech API and custom parsing.
- Programmed a regex-driven extraction engine in Node.js to precisely identify Amount, Category, and Date data points.
- Standardized a RESTful architecture on MongoDB to persist 1000+ financial records with real-time CRUD accessibility.
- Reduced manual input through automated parsing and voice-to-JSON conversion for an efficient mobile workflow.

ChatArchive | [Store Link](#) | *Manifest V3, JavaScript, jsPDF, Service Workers*

2026

- Engineered a privacy-focused Chrome Extension supporting 5+ AI platforms for exporting chat history into standardized PDFs.
- Developed custom JavaScript extractors to accurately preserve code blocks, LaTeX, and nested tables across multiple interfaces.
- Bypassed CORS restrictions via a Service Worker fallback for image fetching, ensuring 100% data fidelity in exports.
- Utilized jsPDF for client-side document generation, ensuring zero data transmission to external servers.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), C++, SQL, HTML5, CSS3

Frontend: React.js, Redux, Tailwind CSS, Vite, Framer Motion

Backend: Node.js, Express.js, REST APIs, JWT, bcryptjs, oauth

Databases & Cloud: PostgreSQL, MongoDB, AWS (EC2, S3), Docker

Tools: Git, GitHub, Postman, VS Code, Linux

EDUCATION

Chandigarh University

Aug 2022 – May 2026

Bachelor of Engineering in Computer Science

Mohali, India

Dr. Virendra Swarup Memorial Public School

Apr 2021 – Mar 2022

Class XII (ISC Board)

India

Dr. Virendra Swarup Memorial Public School

Apr 2019 – Mar 2020

Class X (ICSE Board)

India

CERTIFICATIONS & INTERESTS

Certifications: Cloud Computing, Internet Of Things (IoT)

Interests: FinTech, Algorithmic Trading, Open Source Contributing (Cal.com)