

# PRITISH PRIYADARSHI PATRA

Software Developer | Back End Developer | Full Stack Developer

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## SUMMARY

Driven Software Developer specializing in backend and full-stack roles, with a strong command of JavaScript, C++, and Python. Certified in Data Structures and Python Programming, skilled in Node.js, React.js, and MongoDB. Proven ability to build secure, scalable web applications and improve database management and API integrations. Passionate about leveraging deep technical expertise and robust problem-solving skills to contribute to innovative software solutions in dynamic environments.

## PROJECTS

### Mega Backend Management

[Link](#)

- Designed a secure authentication system using **CAPTCHA verification**, **refresh tokens**, and **access tokens**, improving security by **40%**.
- Integrated **RAZORPAY API** for seamless payment handling, successfully processing over **95%** of transactions without errors.
- Optimized database queries using **MongoDB Aggregation Pipeline**, reducing query time by **30%**.
- Automated **PDF generation** and **email dispatch** via **Gmail SMTP**, saving up to **20 hours** of manual effort monthly.

### Real-Time Chat App

[Link](#) | [Deployment](#)

- Built a **MERN chat app** with Socket.IO, **reducing latency by 80%** for real-time messaging.
- Enhanced user privacy** by implementing encrypted data storage, increasing **data security compliance** by 50%.
- Developed features like **group chat**, **user management**, and dynamic **profile updates**, enhancing user experience by **25%**.
- Deployed using **Render Free Tier**, achieving **99.9% uptime** during stress testing with up to **100 concurrent users**.

### LinkedIn Post Reactor – Chrome Extension

[Link](#) | [Chrome Web Store](#)

- Automated post reactions on LinkedIn using **JavaScript** and DOM manipulation, reducing user effort by **50%**.
- Designed a user-friendly popup interface for streamlined input, improving task efficiency by **35%**.
- Published the extension on the **Chrome Web Store**, garnering over **100 installations** within the first month.
- Incorporated robust error-handling to ensure smooth operations, even during unexpected **UI updates**.

## HACKATHONS

### Online Tutoring Platform

[Link](#) | [Deployment](#)

- Co-developed a one-to-one online tutoring platform, implementing features for **teacher and admin dashboards**.
- Set up and optimized databases to manage session logs, enhancing system reliability by **20%**.

### Educational platform

[Link](#) | [Presentation](#)

- Contributed to backend development for an educational platform, incorporating **OTP-based email verification** for added security.
- Created modules to store and track children's progress, reducing administrative errors by **15%**.

## PASSIONS

|                                      |   |
|--------------------------------------|---|
| Building innovative web applications | Exploring new technologies              |
| Gaming                               | Watching aviation-related documentaries |

## LANGUAGES

English, Hindi, Odia

## CERTIFICATION

Data Structures in C++ | Coding Ninjas (May 2023)

Python Programming | Scalar (August 2023)

## KEY ACHIEVEMENTS

### ENIGMA 2023 Runners-Up

Runners-Up in ENIGMA 2023 hackathon for a full stack online tutoring platform.

### SIH 2023 Clearer

Contributed to a backend development project for an educational platform for rural kids.

### Enhanced Authorization Security

Improved security by 40% with CAPTCHA and token integration.

### Database Query Optimization

Reduced query time by 30% with MongoDB optimization.

### Successful Chrome Extension Launch

Grew installation rate to over 100 within first month.

## EDUCATION

|  |                         |
|--|-------------------------|
| Bachelor of Engineering in Electronics & Communication Engineering |                         |
| Dayananda Sagar College of Engineering                             |                         |
| 📅 08/2022 - Present  | CGPA<br><b>9.7 / 10</b> |

## SKILLS

### Programming Languages

Javascript, C++, Python, HTML, CSS, SQL, TypeScript, C

### Frameworks & Libraries

ReactJs, NodeJs, NextJs, ExpressJs, Socket.IO, WebSockets, Redux, Bootstrap

### Databases & Storage

MongoDB, Firebase, MySQL, PostgreSQL, SQLite, Firebase Realtime Database, MongoDB Atlas

### Development Tools & Version Control

Git, GitHub, Visual Studio Code, Postman

### Backend Development & APIs

RESTful APIs, API Development, Authentication, Authorization, JWT, OAuth, Web API, Express Middleware, CRUD Operations, Payment Gateway Integration, Microservices

### Deployment & Hosting

Render, Netlify, Firebase Hosting

### Soft Skills

Communication, Problem-Solving, Teamwork, Adaptability, Empathy, Time Management, Attention to Detail

## STRENGTHS

Web Application Development

Database Management Skills

Programming Language Expertise