

PRANAV CHATURVEDI

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Experience

Accenture [↗](#)

10 2024 – 05 2025

Associate Software Engineer

Gurugram

- Developed a real-time chatbot that automatically shortens URLs exceeding 50 characters, enhancing message readability and user experience in conversations.
- Implemented real-time message processing using WebSockets to intercept incoming messages instantly and apply dynamic URL shortening logic.
- Enabled users to retrieve original URLs using command-based inputs and integrated APIs to access previous chat history for contextual responses.
- Built a fault-tolerant delivery system with acknowledgment tracking and retry logic to ensure reliable message delivery despite client-side network instability.

Palo Alto—AICTE [↗](#)

09 2023 – 11 2023

Cyber Security Internship

Virtual

- Utilized Linux-based tools including Wireshark, Burp Suite, Metasploit, Netcat etc. to identify, analyze and exploit vulnerabilities based on the OWASP Top 10 security risks.
- Investigated and exploited common web application vulnerabilities, including SQL Injection, XSS, File Upload, CSRF, and Security Misconfigurations.

TECHNICAL SKILLS

Languages: Java, JavaScript, SQL, Pl/SQL, NoSQL, HTML, CSS, Bootstrap, Bash, TypeScript
Developer Tools: Postman, Git, Github, Linux, Docker, OAuth2, Websockets, Webhooks, Rest APIs
Frameworks: React.js, Next.js, Three.js, Node.js, Express.js
Databases: MySQL, MongoDB, Firebase, Oracle
Cloud: AWS Services (EC2, S3, VPC, CloudFront), Apex
Libraries: Axios, ShadeCN, Material UI, Tailwind CSS, Bootstrap, Zustand, Redux, Loadash
DEVOPS-IaC: Terraform, GitHub Actions

EDUCATION

NIET

11 2020 – 06 2024

B.Tech - CGPA - 8.2

Gr. Noida, UP

PROJECTS

Devender [↗](#) | Js, ReactJs, NodeJs, MongoDB, Express.Js

02 2025

- **Designed and developed a scalable MERN stack web application enabling developers to create profiles, send/accept connection requests, and collaborate—implemented a microservices-based NodeJs backend with MongoDB for robust matchmaking and user management.**
- Built a secure authentication system using JWT, cookies, and bcryptjs for encrypted password management, protected routes with custom middleware, and implemented role-based access controls to safeguard user data and endpoints.
- Optimized backend performance and user feed logic through advanced MongoDB queries, compound indexing, and efficient pagination—excluding already connected or ignored users to deliver personalized and fast-loading suggestions.

Chat App [↗](#) | Js, ReactJs, NodeJs, MongoDB, ExpressJS

07 2024

- **Developed a real-time chat application with ReactJs frontend, Node.Js backend, and MongoDB as the primary data store.**
- Integrated WebSocket communication to enable real-time messaging between users with instant delivery and typing indicators
- Implemented features like message history, online presence tracking, and room-based conversations.

Blog Backend [↗](#) | Node.js, Express.js, MongoDB, AWS S3

04 2024

- **Built a scalable RESTful backend for a blog application using Node.js and Express.js, enabling robust HTTP request handling and API endpoint management.**
- Implemented user authentication and role-based authorization using JWT (JSON Web Tokens) for secure access control, and bcrypt for password hashing to ensure data security.

- Employed express-validator for request validation to maintain data integrity and reduce vulnerability exposure through API inputs.

EzeAgro [🔗](#) | [ReactJS](#), [NodeJS](#), [ExpressJS](#), [Firebase](#)

12 2023

- **Engineered and prototyped advanced sensors** for soil moisture, temperature, and humidity; enabled **real-time wildfire detection**, cloud analytics, and wildlife deterrence, reducing response time by **50%**.

3D-Tshirt [🔗](#) | [React](#), [TailwindCSS](#), [ThreeJS](#)

03 2023

- About Project **Create your own style with our new 3D Swag Customization App**. Pick colors, add logos, and try **AI** designs to make your virtual swag unique. Built using [React.js](#), [Three.js](#), and [OpenAI](#) to show the usage of a 3D world with **AI**.

CERTIFICATIONS

- CEH v13
- Cybersecurity Analyst - IBM
- ReactJS - Infosys
- Network Security - Paloalto
- CCT - Ec Council
- OOPS Java - Coursera
- NodeJS with React & DB - Coursera
- CC - isc2
- Java Script - Coursera