

# Ashwani Kumar Pal

Fullstack Software Engineer

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## TECHNICAL SKILLS

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**Programming Languages:** Javascript | TypeScript | SQL | Python

**Frontend Technologies:** Vue.js | React.js | Next.js | Redux | Webpack

**Backend Technologies:** Node.js | FastAPI | Celery | Redis | Postgres | Sequelize.js

**Developer Tools:** Git | Docker | Azure Devops | TailwindCSS | Postman | Vue Test Utils | Figma | Jest

**Data Structures and Algorithms | Object Oriented Programming**

## EXPERIENCE

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### Software Engineer

Feb. 2023 – Present

*Jio Commerce platform - Fynd*

*Mumbai, India*

- Developed and maintain **APIs** for Product search and catalog, and Custom user content used by Tira, and Jiomart
- Revamped product collections, Inventory, and OMS dashboard UIs to make it streamlined and user-friendly.
- Crafted a highly reusable **VueJS** based component library for Custom data, streamlining data customization throughout the platform. This reduced the need for CRUD APIs for trivial functionality, leading to a substantial increase in **developer efficiency**.
- Implemented a API usage monitoring service for **blockchain platform** that tracks the usage and alerts when the limit is exhausted and also made a dashboard where users can see current limit usage and plans.
- **Improved test coverage** of commerce platform frontend by **30%**

### Backend Developer Intern

Feb 2022 - Apr 2022

*Dronebase*

*Remote, India*

- Facilitated a complete overhaul of the testing architecture by removing the need of populating database assets, resulting in a significant performance boost while running tests for applications.
- Wrote PyTests for various existing routes and fixed bugs.

## PROJECTS

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### Website Chat Assistant | *Next.js, Tailwind CSS, Redis, Meta-Llama-3-8B-Instruct*

- Developed an AI-powered chat application enabling users to interact with any website's content using **Retrieval-Augmented Generation (RAG)** and **Meta-Llama-3-8B** technologies.
- Implemented **real-time response streaming** and session-based chat history, ensuring a seamless user experience.
- Built a responsive dark mode UI with **Tailwind CSS** and **NextUI**, optimized for all device sizes.
- Crawled website content and stored indexed data in **Upstash Redis** for efficient content retrieval and AI response generation.

### Caller ID Application | *Node.js, PostgreSQL, Redis, Sequelize.js, JWT, React.js*

- Developed a Caller ID application with user registration, spam detection, and robust search capabilities, implementing JWT-based authentication and access control.
- Optimized API performance with **Redis caching**, ensuring faster data retrieval and reduced server load.
- Designed and executed scripts using **faker.js** to populate the database with test data, streamlining testing processes.
- Built a responsive frontend using **React.js** and integrated secure APIs with backend systems.

### Domain Security Analyzer | *Python, Requests, Git*

- Created a Python-based domain security analysis tool featuring subdomain discovery, port scanning, and SSL/TLS certificate verification. Accelerated domain scanning using **ThreadPoolExecutor** for concurrent execution and optimized response validation.
- Integrated functionality to enumerate all potential subdomains, improving the tool's comprehensiveness.
- Verified SSL certificates to assess encryption and identify vulnerabilities in domain configurations.

## EDUCATION

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**Jaypee University of Engineering and Technology**

*B.Tech in Computer Science and Engineering with CPGA of 8.4*

Guna, India

2019 - 2023