

Professional Experience

Software Development Engineer - Zscaler, Bangalore (Feb 2023 - Present)

- **Developed and maintained scalable UI** components using **React** and **Redux**, contributing to the **micro-frontend** architecture for Zscaler's AI-based data security platform, DSPM, improving system modularity and reducing deployment time by **20%**.
- **Collaborated closely with cross-functional teams** (backend engineers, product managers, and designers) in an **Agile environment**, participating in daily stand-ups and sprint planning to ensure timely feature delivery with a **95% sprint completion** rate.
- **Led discussions with Product Managers (PM) and the backend team** to define the best API signatures, ensuring efficient data flow between the frontend and backend, resulting in a **30% increase in API performance** and a more seamless integration process.
- Experienced in **collaborating with global teams** with the help of tools like Slack, Jira, Zoom and Github for seamless project management.
- Improved load times by **30% by optimizing state management** and reducing unnecessary re-renders.
- Transitioned from **INTERN** to a **Full Time Role** in August 2023.

Associate Software Developer Intern – Carwale, Mumbai (Sep 2022 - Jan 2023)

- **Developed a microservice architecture** using **Node.js**, **Express**, and **gRPC**, which handled dynamic content modifications, resulting in a **20% reduction in system downtime** and more efficient content delivery.
- Designed **scalable backend systems** by implementing **data modelling** strategies and creating a **high-level system architecture**, improving the overall system's ability to handle increased traffic by **25%**.
- **Implemented dynamic hyperlink generation** based on regex evaluation to enable real-time content updates, which enhanced content accuracy and reduced manual intervention by **30%**.
- Utilized **Postgres** and **Elasticsearch** to query large datasets, optimizing database queries and reducing response times by **40%**.
- Built an **event-driven architecture** using **event emitters** where subscribing services consumed events, improving the modularity and reliability of the system's real-time operations.
- Leveraged **Redis queues** and **Pub/Sub architecture** for handling high-volume tasks, allowing the system to scale horizontally to accommodate increasing user demands with **0% downtime during peak loads**.
- **Led backend development efforts** in collaboration with frontend teams to ensure seamless API integration and data flow, contributing to **80% on-time delivery of all sprint features**.

Projects

ZapMate (Zapier Clone)

- Built a **workflow automation platform** inspired by Zapier, enabling users to create and manage task pipelines across multiple applications, **reducing manual intervention**.
- Designed and developed a **responsive, interactive frontend** using **Next.js**, ensuring a smooth and user-friendly experience for workflow automation.
- Implemented a **publisher-consumer model** using **Kafka**, ensuring reliable communication and processing between services. Used the **transactional outbox pattern** to maintain data consistency across microservices.
- Developed the backend with **Express.js** and **Node.js**, integrated with **Postgres** using **Prisma ORM** for efficient database management.

Issue-Tracker (JIRA Clone)

- Developed a **scalable issue tracking system** using **Next.js** for server-side rendering and **Redux** for state management, reducing load times by **45%** compared to traditional single-page applications.
- Integrated **Prisma ORM** and **Postgres** for efficient data management, resulting in a **30% reduction in query response times**. Includes **complex queries** and **filtering based on user inputs**.
- Utilized **Docker** to containerize the application, enabling seamless deployment across environments and improving scalability.

Skills

- **Backend Technologies:** Node.js (Advanced), Express.js, gRPC, RESTful APIs, WebSockets, Redis, Elasticsearch, Postgres, Redis Queues, Pub/Sub Architecture, Hono.js (Serverless)
- **Frontend Technologies:** React.js (Advanced), Next.js, Redux, TypeScript, HTML/CSS.
- **Developer Tools:** Docker, Kubernetes, Git, GitHub, AWS, Jenkins (CI/CD), Github Actions, Prisma ORM.
- **Architectures:** Microservices, Event-Driven Architecture, CI/CD Pipelines, Scalable Backend Systems.
- **Collaboration and Leadership:** Agile methodologies, Sprint Planning, Mentorship, Cross-functional team collaboration, Code Reviews.

Education

Bachelor of Technology, Computer Science and Engineering

Lakshmi Narain College of Technology, Bhopal

(2019- 2023)

CGPA: 8.89