

# Eshan Singh

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## EDUCATION

**SRM Institute of Science and Technology**  
*Bachelors in Computer Science and Engineering*

Chennai, India  
*Sep 2020 – June 2024*

## EXPERIENCE

**Software Development Engineer (Full Time, Initially Intern)**  
*Farmako Healthcare Private Limited | [farmako.in](https://farmako.in)*

Gurugram, India  
*Sept 2022 – Present*

- Backend Lead for **ABDM (Ayushman Bharat Digital Mission)** integration, utilizing **Golang** to achieve **NHA (National Health Authority)** certification and contribute to a key national healthcare initiative.
- Architected and delivered a comprehensive internal management system in **Golang**, managing critical business processes (procurement, sales, inventory, audit, compliance) and ensuring adherence to medicine management regulations.
- Developed a robust **Internal Access Management (IAM)** system with **ORY Keto**, securing access control for the internal management portal and safeguarding sensitive data.
- Developed the backend for a driver-side mobile application using **TypeScript**, enabling efficient order assignments and real-time location tracking, enhancing logistical operations.
- Drove a **78% performance increase** in search query response times by deploying and configuring a self-hosted **Typesense** service, reducing average response times from **700ms to 150ms**.
- Enabled the adoption of self-hosted **ClickHouse** and **PeerDB** for data warehousing and analytics from our multiple **Postgres** databases, delivering a scalable and cost-effective solution compared to cloud-based alternatives like BigQuery.

**Software Development Engineer**  
*Mintair XYZ | [mintair.xyz](https://mintair.xyz) | Founding Engineer*

Gurugram, India  
*JAN 2024 – Present*

- Lead the development of an **automated internal management system**, enhancing operational efficiency for large-scale machine infrastructure and **streamlining workflows**.
- Achieved a significant **15% improvement** in system reliability by increasing the average uptime of critical nodes from **80% to 95%** through proactive monitoring and strategic maintenance.
- Engineered a **Discord-integrated ticket management tool**, enabling the support team to efficiently resolve common issues and **optimize response times** for critical support requests.

**Software Development Engineer Intern**  
*Heiphen*

Remote  
*Aug 2021 – July 2022*

- Developed **RESTful APIs** using **Node.js** and **Express** for a client-facing admin panel, streamlining data management workflows and enhancing user interface interactions.
- Enhanced the in-house mailer and notification systems resulting in improved system reliability by reducing message failures and increased delivery rates for critical transactional and marketing communications.
- Engineered a high-throughput document generation and distribution system using **TypeScript**, leveraging templating engines and queue-based processing to enable rapid creation and dissemination of personalized documents via email for large-scale operations and communication efficiency.

## PROJECTS

**ZEUS** | *Golang, MongoDB, Redis, Nginx* | GitHub

*December 2021*

- Project Lead for a scalable admin events portal built with **Golang** and **MongoDB** that manages all event-related functions, from information display and timelines to registrations, RSVP, product distribution, promotions, and feedback.
- Implemented a RESTful API using **Golang** and **Gin framework** for efficient data exchange between frontend and backend, and utilized **Redis** for caching frequently accessed event data to reduce database load and improve response times.
- Designed the system architecture to handle high traffic during peak event registration periods, employing **Nginx** as a reverse proxy and load balancer to ensure application availability and optimal performance.
- Collaborated closely with the frontend team to deliver a user-friendly interface and seamless user experience for event administrators.

## TECHNICAL SKILLS

**Domain Knowledge:** Backend Development, DevOps, CI/CD, API Design & Development, System Design, Database Management (SQL, NoSQL), Cloud Computing (AWS), Containerization (Docker, Kubernetes), Infrastructure as Code (IaC), Monitoring & Logging, Performance Optimization, Authentication and Authorization.

**Languages:** Golang, TypeScript, Python, C++, Bash Scripting.

## VOLUNTEERING

**SRMKZILLA**

Chennai, India

*Associate Technical Lead*

- Conducted career exploration sessions in Computer Science, emphasizing Web Development's future potential.