

# Shayantan Bose

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## SUMMARY

Software engineer with experience designing and building scalable backend and full-stack systems. Strong foundation in API design, data modeling, and system reliability, with a focus on writing efficient, maintainable code and solving real-world engineering problems through end-to-end development.

## EDUCATION

### SRM Institute of Science and Technology

Bachelor of Technology in Computer Science and Engineering

CGPA: 9.51

Aug 2023 – Jul 2027

## EXPERIENCE

### Software Development Intern

June 2025 – July 2025

WASSAN Foundation

Hyderabad, India

- Built a full-stack expense management system using **React.js and Golang**, digitizing NGO financial workflows
- **Reduced processing time by 83% (6 hrs → 1 hr)** by implementing automated OCR validation and optimizing data ingestion pipelines
- Developed **RESTful APIs** for receipt processing, validation, and structured data extraction
- Integrated **Google Sheets and Docs APIs** to enable real-time reporting and collaborative workflows
- **Improved data consistency and reduced manual errors** through standardized validation logic

## PROJECTS

### Movieflix | Go, Chi, PostgreSQL, JWT, OAuth, React Native, Docker

GitHub

- Built backend services in **Go (chi)** handling authentication, user profiles, and media tracking
- Designed **JWT authentication with Google OAuth** for secure login and session management
- Implemented database layer using **PostgreSQL, sqlc, and pgx** for efficient queries
- Developed reusable middleware for request validation and structured error handling
- **Improved frontend responsiveness** with optimistic UI updates and rollback handling
- **Ensured API consistency and data integrity** across edge cases and failure scenarios

### BrowseSync | React, Node.js, Express, MySQL, Browser Extensions

GitHub

- Developed a cross-browser bookmark synchronization platform for multi-device consistency
- Designed **hierarchical data models** with conflict-aware synchronization logic
- Implemented authentication and access control for secure user data handling
- **Optimized MySQL queries and indexing**, reducing latency and improving performance
- **Handled nested tree diffing and reconciliation** for consistent state across devices

## TECHNICAL SKILLS

- **Languages:** Go, Python, JavaScript, SQL
- **Backend:** REST APIs, Microservices, JWT, OAuth, Node.js, Express
- **Frontend:** React, React Native, HTML, CSS
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Tools:** Docker, Git, Google Cloud, Vercel
- **Libraries:** Chi, sqlc, pgx

## ACHIEVEMENTS

### Research Publication (ICACRS 2025) – Client vs Server Databases

Dec 2025

- Benchmarked **IndexedDB, LocalStorage, PostgreSQL, MySQL, MongoDB** using CRUD workloads
- **Analyzed trade-offs in latency, scalability, and consistency**

### Winner – ProtoThon 1.0 Hackathon

Aug 2025

- Built an ML-based anemia detection mobile application and ranked **1st among teams**