

# Sharon P Shajan

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## Backend Developer Intern Profile

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Computer Science student focused on backend engineering, distributed systems, and API-driven product development. Experienced in building server-side services, SQL and NoSQL data models, authentication workflows, automation pipelines, and systems-level projects using Go, Rust, TypeScript, Node.js, NestJS, Express.js, Docker, CI/CD, and Git. Strong foundation in service architecture, database design, reliability-focused engineering, and performance-conscious backend development.

## Technical Skills

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**Languages:** Go, Rust, TypeScript, Python

**Backend:** Node.js, NestJS, Express.js, REST APIs

**Databases:** PostgreSQL, MySQL, MongoDB, NoSQL

**Tools and Infrastructure:** Docker, CI/CD, AWS, GCP, GitHub Actions, Git

## Experience

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### Backend Developer

Jan 2026 – Jun 2026

*Freshire, JVP Ventures*

*Remote*

- Engineered multi-tenant backend services for a campus placement platform supporting 3 primary user roles: students, recruiters, and administrators.
- Built API modules for student profiles, company records, placement tracking, analytics dashboards, administrative controls, and tenant-aware access management.
- Improved authorization boundaries by implementing role-based access patterns across recruiter, student, and administrator workflows.

### Backend Team Lead

Jun 2025 – Jun 2026

*Rehabilitation Plantation Limited, Government Enterprise*

*Remote*

- Led backend delivery for an ERP system consolidating 3 operational domains: finance, HR, and inventory management.
- Defined domain-focused module boundaries, relational schemas, and service-layer interfaces using NestJS, TypeScript, and SQL-backed architecture.
- Applied idempotent request patterns and transaction-safe design practices to reduce duplicate operations, inconsistent state changes, and data integrity risks.

### Backend Team Lead

Aug 2025 – Jun 2026

*PgBee*

*Remote*

- Developed TypeScript service endpoints across 4 product areas: hostel listings, onboarding, search filters, and client-server integration.
- Optimized SQL filtering logic and database access paths to improve listing discovery, search responsiveness, and maintainable data retrieval.
- Designed asynchronous notification handling to move long-running email tasks outside request cycles and improve perceived API responsiveness.

### Full Stack Developer Intern

May 2025 – Aug 2025

*CAFMADS Agency, College of Engineering Trivandrum*

*Trivandrum, Kerala*

- Built a Faculty Repository System for 500+ institutional users, developing Node.js APIs and React UI components to centralize faculty data access.
- Designed normalized database schemas and modular REST APIs to reduce duplicate records, improve maintainability, and support efficient faculty data querying.

### Backend Developer Intern

Sep 2025 – Dec 2025

*Oronium*

*Remote*

- Programmed NoSQL-backed service endpoints and integrated a provider-agnostic notification module for external messaging workflows.
- Conducted load testing, diagnosed latency bottlenecks, and introduced caching strategies to improve reliability under repeated API requests.
- Refined production-oriented backend behavior across API reliability, response-time optimization, and database-backed service delivery.

## Projects

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### Space Mesh Networking – Delay-Tolerant Network | [github.com/sharon504/space\\_mesh\\_dtn](https://github.com/sharon504/space_mesh_dtn)

*Go, TCP Sockets, React, net/http*

*Distributed Systems Project*

- Architected a Go-based delay-tolerant networking system across 192 commits with store-carry-forward delivery, persistent bundle storage, TTL expiry, priority queues, ACK reliability, and buffer-pressure handling.
- Published real-time telemetry through Go **net/http** streams to monitor 4 operational metrics: buffer occupancy, queue depth, link state, and end-to-end delivery status.

### HTTP Server from TCP | [github.com/sharon504/httpFromTcp](https://github.com/sharon504/httpFromTcp)

*Go, TCP Sockets, HTTP/1.1*

*Backend Systems Project*

- Built a custom HTTP/1.1 server over raw TCP sockets covering 8 protocol-level capabilities: request parsing, response writing, routing, static file serving, graceful shutdown, chunked transfer encoding, trailers, and HTTP proxying.

### rgit – Git Internals from Scratch | [github.com/sharon504/rgit](https://github.com/sharon504/rgit)

*Rust, CLI, Filesystem, Hashing*

*Systems Programming Project*

- Developed a Git-inspired version control system in Rust with 7 core capabilities: repository initialization, snapshots, branching, tags, SHA-based object naming, filesystem storage, tests, and CI workflows.

### WorkCraft | [workcraft-f3m.pages.dev](https://workcraft-f3m.pages.dev)

*Node.js, MongoDB, Python/ML, Gemini API*

*UST D3CODE*

- Contributed backend and ML-service components for job matching, marketplace flows, personalized recommendations, and demand forecasting in a 167-commit national hackathon codebase.

### Vitalis – AI Wellness for Elderly Care | [vitalis-client.vercel.app](https://vitalis-client.vercel.app)

*Node.js, n8n, PostgreSQL, Docker*

*1st Prize, CodeReCet 2.0*

- Launched an AI-assisted elderly care platform supporting 3 healthcare workflows: medication reminders, prescription analysis, and emergency coordination.
- Orchestrated a Dockerized Next.js, Express.js, and SQL-backed system with agent-based automation for healthcare workflow execution.

### Diff – Collaborative Ecosystem Platform | [diff-client.pages.dev](https://diff-client.pages.dev)

*React, Node.js, MongoDB, Gemini API*

*D-Solve Hackathon*

- Developed a student collaboration platform connecting 4 stakeholder groups: project owners, contributors, sponsors, and applicants.
- Integrated AI-assisted generation for project synopses and personalized skill roadmaps to streamline project discovery, explanation, and evaluation.

## Education

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### B.Tech, Computer Science and Engineering

2023 – 2027

College of Engineering Trivandrum

Trivandrum, Kerala

## Honors and Achievements

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- 1st Prize: CodeReCet 2.0 National Hackathon, 2025
- 1st Prize: D-Solve Hackathon, 2024
- 3rd Prize: UST D3CODE National Hackathon, 2024