

# Aditya Srivastava

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## PROFILE

Backend-focused computer science student building distributed systems, developer tools, and production web applications. Interested in concurrency, correctness, and understanding failure under load.

## PROJECTS

### Mimori – Distributed Key-Value Store

[GitHub](#)

- Built a distributed key-value store implementing the Raft consensus algorithm
- Implemented leader election, log replication, snapshotting, and membership changes
- Designed gRPC-based inter-node communication and observability metrics
- Tested behavior under crashes, restarts, and network partitions

### Yudoku – Learning Platform

[Live](#)

- Built and operated a production learning platform serving 1,000 visitors
- Implemented authentication, RBAC, and structured course workflows
- Handled deployments, migrations, and real user traffic

### Pika – Programming Language Interpreter

[GitHub](#) | [Blog](#)

- Implemented a toy programming language interpreter from scratch in Go
- Built lexer, parser, AST, and evaluator without external libraries

### Tokbuk – Token Bucket Rate Limiter

[GitHub](#) | [Blog](#)

- Built a token bucket rate limiter in Go to explore burst control and refill behavior
- Implemented concurrency-safe primitives and timing-based refill logic

## TECHNICAL SKILLS

- **Languages:** Go, TypeScript, JavaScript, SQL
- **Backend:** gRPC, REST, WebSockets, HTTP servers
- **Databases:** PostgreSQL, Redis
- **Frameworks:** React, Next.js
- **Tooling:** CLI design, Git, Docker, Linux

## ACHIEVEMENTS

- Built and operated a production web platform with 1,000 visitors
- Authored technical blogs read by hundreds of readers

## EDUCATION

### VIT Vellore

B.Tech in Computer Science and Engineering (**CGPA: 8.73 / 10**)

Vellore, India

2024 – Present