

# AYUSH SRIVASTAVA

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 <https://github.com/Sriyush>

## EDUCATION

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Vellore Institute of Technology

2021 - 2025

*B.Tech - Computer Science Engineering with spec in CPS - 8.61*

*Chennai, Tamil Nadu, India*

## EXPERIENCE

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**FXDX**

February 2025 – Present

*Frontend Developer*

*Bengaluru, India*

- Built and maintained production-grade web applications using **React.js**, **Node.js**, **TypeScript**, **PostgreSQL**, and **REST/GraphQL APIs**.
- Implemented and consumed **REST APIs**, and developed **WebSocket-based real-time data pipelines** for lightning-fast game and trading updates.
- Integrated on-chain operations by developing modules for EVM and Solana-based wallet connectivity, improving transaction reliability and security.
- Designed reusable UI systems with **React**, **Vite**, **Tailwind**, **Zustand**, improving component scalability and reducing bundle size.
- Developed backend business logic, optimized API performance, and collaborated with the blockchain team for secure smart-contract interactions.
- Implemented CI/CD workflows for automated testing, builds, and deployments; strengthened release pipelines for faster iteration.
- Enhanced observability using **PostHog** and **Google Tag Manager** for real-time analytics and product insights.
- Optimized image and asset delivery with **GCP Bucket**, reducing load times and improving Lighthouse performance scores.

**Grahnumb**

October 2023 – December 2023

*Android Developer Intern*

*Bengaluru, India*

- Developed key mobile features using **Flutter** and **REST APIs**, ensuring smooth data flow and responsive UI.
- Integrated multiple backend APIs to enhance app usability and performance.

## PROJECTS & PUBLICATIONS

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**DBSynchro** | Full Stack Data Synchronization System

- Engineered a bi-directional synchronization platform between **Google Sheets** and **PostgreSQL** using **Next.js (Full Stack)**, Node.js, and TypeScript.
- Integrated **OAuth 2.0 Google Client** for secure login and permission-scoped access to user Sheets.
- Implemented real-time sync using **Google Sheets API** + webhook-style triggers from Apps Script.
- Replaced legacy architecture with **Supabase** as primary DB + **Drizzle ORM** for schema management and migrations.
- Built a clean dashboard UI in React for direct CRUD operations on both Sheets and DB.

**Rizz++ / RizzLang** | Custom Programming Language (C++ Engine)

- Developed a Gen-Z themed programming language with Python-like expressiveness on a **C++ core**, including lexer, parser, AST, and interpreter.
- Created compiler toolchain and packaging pipeline for cross-platform builds (**macOS, Linux, Windows**).
- Set up advanced **CI/CD** using GitHub Actions to automatically:
  - – run tests
  - – compile binaries
  - – generate ‘.exe’ and UNIX binaries
- – publish releases and push formula updates to the official **Homebrew Tap**.
- Achieved multiple stable releases while maintaining backwards compatibility.

**Patent Published** | System for Autonomous Staircase Navigation

- Application Number: **202541045588**    Publication Date: **30 May 2025**
- Developed embedded control logic and sensor integration using Arduino for autonomous mobility systems.

### IEEE Conference Publication | Elevation-Aware U-Net for Landslide Segmentation

- Co-authored research introducing an **Elevation-Aware U-Net** integrating DEM data with multispectral imagery for improved landslide detection.
- Achieved performance metrics: **IoU 0.78, Dice 0.81, Accuracy 98.51%**.
- Published in: **2025 IEEE 4th World Conference on Applied Intelligence and Computing (AIC)**.

### TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, C++, Java, Rust (Beginner), SQL, NoSQL

**Backend:** Node.js, Express.js, Next.js (Full-Stack), REST APIs, GraphQL

**Frontend:** React.js, TailwindCSS, Zustand, TradingView APIs

**Databases:** PostgreSQL, Supabase, MongoDB, Drizzle ORM

**Cloud/DevOps:** Docker, GitHub Actions (CI/CD), GCP, Linux

**Tools:** Git, Postman, VS Code, Google Cloud Console

### CERTIFICATIONS

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- MERN Full Stack Internship Program
- Google Cloud Computing Foundation