

# Magi Sharma J

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## PROFILE

Results-driven Computer Science student specializing in Compiler Design, JIT compilation, and runtime environments. Creator of JustJit (a Python JIT utilizing LLVM ORC & SIMD), PostPyro (a high-performance Rust-based PostgreSQL driver), and Velocix (an asynchronous web framework). Possesses deep knowledge of C++, Rust, and Python internals, along with a strong foundation in low-level system architecture.

## EXPERIENCE

### Open Source Contributor

*GitHub / Modular*

- Active contributor to the Modular (Mojo) standard library and maintainer of 65+ repositories focused on compiler tooling and systems programming

## EDUCATION

B.Tech in Computer Science and Engineering *SRM Institute of Science and Technology*

Jun 2024 — Jun 2028

*Chennai*

Focusing on Compiler Design, Operating Systems, and Low-Level System Architecture

Diploma in Computer Application (DCA) *CSC Computer Education*

Mar 2023 — Mar 2024

Achieved Grade 'A'. Developed a "Library Management System" in C as a capstone project.

*Sholinghur*

## PROJECTS

Justjit

Dec 2025

- Architected a Just-In-Time (JIT) compiler for Python 3.13 using LLVM ORC, achieving a 50% reduction in execution time through advanced SIMD auto-vectorization and efficient async/await integration.

toon-parser

Nov 2025

- Developed high-performance Python bindings for the TOON format parser, leveraging PyO3 and Rust to achieve a 50% reduction in processing time compared to traditional Python implementations, optimizing it specifically for tabular data and large language model applications.

Velocix

Nov 2025

- Architected a custom ASGI-compliant async framework by re-engineering core patterns of the Starlette web framework, achieving a 50% reduction in request latency through advanced non-blocking I/O and concurrent request handling.

PostPyro

Oct 2024

- Developed a high-performance PostgreSQL driver for Python using Rust. Engineered it to be fully DB-API 2.0 compliant while leveraging Rust's memory safety and concurrency to outperform standard Python drivers in data-heavy workloads

## CERTIFICATIONS

- Winner (1st Place) - Code Craft Chase
- 3rd Prize - SharpAlthon: Built an AI-Powered Chatbot for Lead Automation.
- Udemy-The Ultimate Fullstack Web Development Bootcamp

## SKILLS

Compiler Design, System Architecture, WebAssembly (WASM), PostgreSQL & Redis, Git & GitHub, AsyncIO, JIT Compilation, Docker & Linux, Python (Internals & C-API), C++, Rust, TypeScript, SQL, SIMD/AVX