

# Sayandeep Giri

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## EXPERIENCE

### Wells Fargo

**Software Engineer** — Sep 2026 – Present

Home Lending Technology · Customer Experience, Sales & Services · *Promoted from Program Associate*

**Program Associate** — Aug 2025 – Sep 2026

- Owned end to end a **GenAI-based XML-to-XML schema transformation platform** built to replace a legacy commercial integration-mapping tool; live in **4 projects**, with **7 more** onboarding next cycle across consumer technology.
- Built the **e-signature flow** for the Loan Rate Amendment (refinance) initiative as one of its main developers, cutting cycle time from **~2 weeks (postal) to a few hours**; early adoption shows **30%+ of customers** inclined toward e-sign.
- Modernized **3 legacy services (30+ components)** from **Java 8 to Java 17**, moving delivery to **Harness CI/CD on OpenShift Container Platform**, with significant infrastructure savings.
- Built AI agents and skills (Claude Code, GitHub Copilot, internal GenAI platform) adopted by **30+ engineers**; spoke at **GenAI education sessions for 60+ engineers**, leads and senior managers.
- Presented delivery updates to senior managers and mentored an intern. Won **1st place, AI Innovation Challenge** (Home Lending Technology, India). Stack: Java, Kafka, MongoDB, OracleDB, Karate, HyperExecute, Octane.

**Intern, Enterprise Data Platform** — Jun 2024 – Jul 2024

- Built a **mock dataset generator** for targeted use cases and an **AI-based data quality checker** that flags stale, incomplete and incorrect customer records.

**JUSense (Jadavpur University startup)** — Sep 2023 – Jul 2025

*Tech Orchestrator (Aug 2024 – Jul 2025); Associate Contributor (Sep 2023 – May 2024)*

- As Tech Orchestrator, led website design, internal apps for CourseWorks and drone development tasks; mentored Associate Contributors and Domain Engineers.
- Taught an **8-week Python and AI course to 100+ students**.

## PROJECTS

**Asyntho** — *AI-assisted XML mapping and transformation platform* — [github.com/sayandeep14/Asyntho](https://github.com/sayandeep14/Asyntho)

- Full-stack (Next.js, Spring Boot, FastAPI, PostgreSQL): **LLM-suggested field mappings** (Anthropic, OpenAI, Gemini) with confidence scores, a visual tree editor, and generated standalone transformers.
- Added a **deterministic validator** for type and cardinality mismatches and **sandboxed Docker execution** of custom Python, JavaScript and Java transform functions.

**Kainetic** — *Rust runtime for production AI agents* — [github.com/sayandeep14/Kainetic](https://github.com/sayandeep14/Kainetic)

- Tokio-based ReAct agent runtime with **parallel tool dispatch**, multi-agent orchestration (pipeline, supervisor, state machine), six memory backends and Prometheus/OpenTelemetry observability.
- Python (PyO3) and TypeScript (napi-rs) bindings; Criterion benchmarks, proptest and cargo-fuzz

**CPPReflect** — *C++26 static-reflection library* — [github.com/sayandeep14/CPPReflect](https://github.com/sayandeep14/CPPReflect)

- Header-only library using **P2996 std::meta** to generate equality, ordering, hashing, JSON and binary serialization and validation with **no macros and zero runtime overhead**; **266 Catch2 tests**, Google Benchmark.

**Multimodal Emotion Recognition** — *Dr. Sarbani Roy, Dr. Asif Iqbal Midya* — Final-year project, ongoing

- Ensemble of MLP, GRU, BiLSTM, SVM, XGBoost and Random Forest models trained on **RAVDESS, SAVEE, CREMA-D and TESS**, mapping emotions onto **Plutchik's wheel**. Part of **CAMOFLAGE** (Communication Augmented Multimodal Open Framework for Language Access & Gesture Empowerment).

## EDUCATION

**Jadavpur University, Kolkata** — 2021 – 2025

*B.E. Computer Science and Engineering · CGPA 8.73, First Class with Distinction*

## ACHIEVEMENTS

- LeetCode**: 100+ day streak, 200+ problems solved.
- AIR 352, KVPY-SA; rank 159 (General)**, WBJEE; **3rd place**, Climate Connect (IEEE).

## SKILLS

**Languages**: Java, Python, C++, Rust, Go, JavaScript

**Backend, cloud and data**: Spring Boot, Kafka, MongoDB, OracleDB, PostgreSQL, Docker, OpenShift, Harness CI/CD

**AI and testing**: LLM integration (Anthropic, OpenAI, Gemini), agent design, Karate, HyperExecute, Devin AI.