Arihant Jain

Master's Student in Computer Science | Software Engineer

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France work authorization: Student visa (VLS-TS) • Internship agreement (*convention de stage*) available

LinkedIn: ariihantijain | GitHub: arihant-dev | Portfolio

Profile

Software Engineer with 4+ years of experience building and operating backend systems in **Go**, with a focus on **distributed systems**, reliability, and cloud infrastructure.

- Seeking **internship (Stage PFE, 6 months) from March 2026** and open to **full-time (CDI) from Sept 2026**.
- Strengths: API design, Event-Driven Architectures, Observability and Production Operations.
- Tech: Microservices, AWS, Terraform, Kafka/SQS, PostgreSQL/Redis, gRPC/REST.

Education

Master of Science in Computer Science   Expected Graduation: Sept 2026

EPITA (École pour l'Informatique et les Techniques Avancées), Paris, France

- **Availability:** Internship (Stage PFE) from **March 2026**; full-time (CDI) from **Sept 2026**.
- **Relevant Coursework:** Advanced Algorithms, Distributed Systems, Cloud Computing, System Design.

Bachelor of Technology in Electronics & Communications   2017 – 2021

Jaypee Institute of Information Technology, Noida, India

Technical Skills

Languages

Go, Python, SQL, C/C++

Distributed Systems

Concurrency, Microservices, event-driven systems, fault tolerance, observability

Cloud & Infrastructure

AWS (EC2, EKS), Docker, Terraform, Linux (Shell/Bash)

Backend & Data

PostgreSQL, Redis, Kafka, AWS SQS, gRPC, REST, Protocol Buffers

DevOps & Tools

Git, GitHub Actions, CI/CD, Makefiles, Chaos Engineering

Languages

English

Fluent (C1)

French

A2 (Active Learner, Enrolled in Intensive B1 French course)

Professional Experience

Software Engineer   June 2021 – Aug 2025

Thriwe, Delhi, India

- **Distributed migration:** Coordinated migration from a legacy PHP monolith to a **Go microservices** architecture; reduced technical debt and improved critical API response times by **30%**.
- **Reliable notifications:** Built a centralized notification service (SMS/Email/WhatsApp) handling **10,000+ notifications**/**day**; added retries, circuit breakers, and idempotency to sustain **99.9% availability** under peak load.
- **Event-driven pipelines:** Designed Kafka-based pipelines processing **5k+ events**/**s** to power near real-time analytics for banking partners.
- **CI/CD & release velocity:** Implemented CI/CD with Docker + GitHub Actions; reduced deployment time from 45 minutes to **15 minutes** and enabled daily production releases.
- **Security & APIs:** Delivered stateless services with JWT auth and RBAC for employee benefits programs serving enterprise clients (e.g., HSBC, Mastercard).
- **Developer productivity:** Standardized local environments with Docker Compose; cut onboarding from 2 weeks to **2 days**.

Projects

Command Shell (Go)   [GitHub]

Implemented a custom POSIX-compliant shell from scratch without using standard libraries for process management. Features include:

- Pipe handling (|) and I/O redirection.
- Signal management (SIGINT, SIGTSTP).
- Background execution and job control.

TVPlay (Go)   [GitHub]

Built a high-performance CLI tool that renders video media as ASCII text in the terminal in real-time.

- Utilized FFmpeg bindings for frame extraction.
- Optimized terminal cursor manipulation for smooth playback.