Shlok Mestry

Software Engineer

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EDUCATION

Dublin Business School, **Dublin, Ireland** - *Master's, Information Systems with Computing*   **Jan 2024**

Thakur College of Science and Commerce, **Mumbai, India** - *Bachelor's, Computer Science*   **Jan 2023**

WORK EXPERIENCE

Founder & Software Engineer, Boxed App, Dublin, Ireland   **May 2025 — Present**
- Designed and delivered backend services in **Java and Python**, deployed on **AWS**, supporting real-time user workflows.
- Developed **SQL-driven data pipelines**, including validation, transformation, and optimization for performance and reliability.
- Implemented **CI/CD pipelines** using GitHub Actions and Jenkins to ensure safe and repeatable deployments.
- Implemented CI/CD pipelines with GitHub Actions and Jenkins, enabling fast, safe, and repeatable deployments.
- Improved system reliability through automation, monitoring, and data-processing pipelines, reducing operational risk.

Software Engineer, Babylon Radio, Dublin, Ireland   **Jan 2024 — Present**
- Designed and maintained **Java & Spring Boot backend services** supporting **50,000+ active users**.
- Wrote and optimized **complex SQL queries and stored procedures** to support reporting, transactional workflows, and data consistency.
- Improved backend and database performance by analyzing execution plans, indexing strategies, and query refactoring.
- Collaborated with Product Managers, UX Designers, and QA to deliver features end-to-end in an **agile environment**.
- Participated in **production incident response**, troubleshooting data and application issues, and delivering long-term fixes.
- Ensured high-quality delivery through unit testing, automated CI pipelines, and peer code reviews.

Flutter Developer, Finoux Solutions, Mumbai, India   **Feb 2023 — Sep 2023**
- Supported **fintech applications** operating in regulated, high-availability environments.
- Worked with **transaction-heavy backend systems**, ensuring data integrity and consistent behavior across services.
- Collaborated with backend and QA teams to validate releases and reduce production risk.
- Assisted with defect triage, root cause analysis, and production readiness activities.
- Gained hands-on exposure to payment flows, transactional consistency, and risk-aware software delivery.

Java Developer Intern, ARD Softech Pvt Ltd, Pune, India   **May 2022 — Feb 2023**
- Developed and maintained **enterprise Java & Spring Boot APIs** supporting business-critical applications.
- Implemented **complex SQL queries and stored procedures** for transactional workflows with strong consistency guarantees.
- Achieved **~40% performance improvement** through SQL query optimization, indexing, and caching strategies.
- Participated in agile ceremonies including sprint planning, stand-ups, retrospectives, and code reviews.
- Supported production systems through debugging, defect fixes, and operational readiness activities, collaborating closely with senior engineers.

OPEN SOURCE CONTRIBUTIONS

Contributor - Agent Scope AI
- Active contributor to **AgentScope Java**, an open-source **Java framework for building LLM-powered, agent-based applications**, following production-grade engineering practices.
- Contributing to **core runtime and extension modules**, improving **agent execution flows, tool integration, and developer experience** in a modular Java codebase.
- Working with **cloud-native and container-friendly design patterns**, aligning agent execution with **Kubernetes-style orchestration and scalable deployment models**.
- Collaborating with a global open-source community through **pull requests, issue triage, code reviews, and CI workflows**, following structured contribution guidelines.
- Gaining hands-on experience with **observability, safe execution, and extensible integrations**, relevant to **enterprise middleware and platform engineering** use cases.

PROJECTS

Whyismybuildslow, Link
- Built **whyismybuildslow**, a **Go-based build performance analyzer** that wraps shell commands to capture execution metrics (timestamps, stdout/stderr, exit codes) and produce accurate, time-based build breakdowns.
- Designed an **analysis engine** to detect build phases and classify bottlenecks such as **network latency, cache misses, rebuild loops, and Docker image pulls**, with confidence scoring for each cause.
- Implemented multiple output modes including **plain CLI summaries, an animated terminal UI (Bubble Tea), and structured JSON exports** to support extensibility and automation.
- Applied a **safe, read-only instrumentation approach** with clean data modelling to ensure accurate analysis, testability, and minimal impact on developer workflows.

Vitamin D Deficiency Prediction Pipeline, Link
- Built an **end-to-end machine learning pipeline in Python** to predict Vitamin D deficiency in diabetic patients using real-world **NHANES healthcare data**.
- Implemented **data ingestion, cleaning, feature engineering, and validation workflows**, ensuring data quality and reproducibility across experiments.
- Trained and evaluated multiple models including **XGBoost, Random Forest, and Logistic Regression**, applying **cross-validation** and performance tuning.
- Addressed **class imbalance** using techniques such as **SMOTE**, improving model robustness and prediction reliability.

SKILLS & INTERESTS

Backend & APIs:	:	Python, Java, Spring Boot, REST APIs
AI & Data:	:	Data Pipelines, ETL Workflows, SQL (PostgreSQL, MySQL), Data Modelling, Performance Tuning
Cloud & Containers:	:	AWS (EC2, S3, Lambda), Docker, Kubernetes, Cloud-Native Principles
DevOps & CI/CD:	:	Git, GitHub Actions, Jenkins, Maven, Containerized Deployments
Engineering Practices:	:	Agile/Scrum, Unit & Integration Testing, Clean Code, Code Reviews
Securiiy Basics:	:	AuthN/AuthZ concepts, Secure API Design, Dependency & Container Awareness

CERTIFICATIONS

AWS Cloud Practitioner Essentials, **Amazon AWS Academy**   **Dec 2025**

Java Data Structures & Algorithms, **Udemy**   **Mar 2024**