

Shourya Raj Sharma

SOFTWARE ENGINEER

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Summary

Machine learning engineer with 5+ years of experience building scalable data pipelines and backend architecture. Language agnostic with Python expertise and proficiency in Java and .NET Core. Experienced in designing event-driven systems that seamlessly integrate ML models for high-performance production environments

Skills

DevOps	AWS, GCP, Docker, Kubernetes, Gitlab CI/CD
Backend	Python (FastAPI / Flask / Django), Java (Spring Boot), .NET Core
Front-end	React.js, Remix
Programming	Python, JAVA, C#, Go
Databases	MongoDB, PostgreSQL, MySQL, Kafka
Machine Learning	Genetic Algorithms, DSPy, LLMs (VertexAI, OpenAI)

Experience

ComplyAdvantage

Greater London, London

MACHINE LEARNING ENGINEER

Apr. 2024 - Present

- Currently working on the design and implementation of a next-generation agentic ingestion system that leverages LLMs to filter and classify over 100 million media articles monthly, enabling enterprise clients to receive critical risk intelligence with far higher accuracy.
- Conducted extensive research and implemented prompt engineering techniques for fine-tuning LLMs, leading to a 100% increase in classification accuracy over the existing pipeline, directly enhancing the quality of intelligence delivered to compliance teams.
- Managed the decommissioning of 3 large data clusters within the company, requiring liaising with 5 different teams, spanning more than 80 services, ultimately resulting in \$18000 of savings per month.
- Engineered a RAG-based LLM tool enabling developers to query codebases and auto-implement generated code, accelerating bug fixes for web scrapers and increasing data ingestion rates—delivering more timely intelligence to enterprise clients.

Qube Research & Technologies

Greater London, London

QUANT TECHNOLOGIST

Jan. 2024 - Apr. 2024

- Integrated several new python data sources through which traders could implement strategies and generate revenue. Decreased ETL of data source onboarding by 2 days by developing an in-house automated integration testing library in .NET, which was critical to increasing the velocity of implementing new trading strategies in production.

ComplyAdvantage

Greater London, London

SOFTWARE ENGINEER

Jul. 2022 - Jan. 2024

- Developed and maintained an orchestration layer of Django, FastAPI and Flask microservices responsible for monitoring and running 1000s of web scrapers on international sanction sources - this data was the core of our product, supporting millions of dollars of revenue and was expected to be available to tight SLAs.
- Architected a solution for migrating data from a storage-based fetch system of 40 million records from a mongoDB database to a data-streaming model built on Apache Kafka through Kafka Connect and confluent-python - this allowed data to be readily available to clients in near-real time.
- Implemented an audit dashboard connecting the orchestration layer to Elasticsearch to gather analytics on data changes within sanction sources, a significant feature that was required by enterprise-level clients and is now frequently used for auditing purposes.

Discover Financial Services

Farnborough, Hampshire

BUSINESS TECHNOLOGY INTERN

Jun. 2021 - Sep. 2021

- Developed an internal dashboard used to manage and monitor all software engineering projects in the payments pipeline, using a tech stack consisting of Spring Boot, Flask, React and Redux, PostgreSQL and Apollo GraphQL. This was used by all engineering teams within the company to accelerate delivery.
- Created a standardised testing framework for all projects using React.js by documenting and presenting the usage of Jest and Cypress, improving our software reliability and code coverage by around 30% on the dashboard application.

BAE Systems

Portsmouth, Hampshire

SOFTWARE ENGINEER

Sep. 2020 - Jun. 2021

- Developed a Python and React self-hosted web application responsible for utilising live ship and radar data as parameters for a genetic route-planning algorithm. This was demo'd to royal navy commanders and scheduled for test deployment on live ships.
- Mentored software engineering apprentices on the team with one-to-one sessions focused on introducing best practices such as usage of git for source code management, and the importance of updating and maintaining documentation.

VS Design Solutions

Slough, England

FULL STACK DEVELOPER

Jan. 2017 - Feb. 2022

- Worked as a part time full stack developer using React.js and Ruby on Rails, developing a ticketing system similar to Jira which was used by employees to track progress of projects being undertaken at the company. This improved the visibility of all projects within the company, and thus improved communication with clients extensively.
- Developed and maintained the company website in Ruby on Rails and managed day-to-day dashboard updates on the company intranet.

Honors & Awards

Apr. 2021 **IMPACT Award**, BAE Systems IMPACT Award for significant work towards the company objectives

Portsmouth

Jan. 2021 **IMPACT Award**, BAE Systems IMPACT Award for introducing fixes for major blockers

Portsmouth

Nov. 2020 **IMPACT Award**, BAE Systems IMPACT Award for significant work towards the company objectives

Portsmouth

Aug. 2021 **Winner**, Discover Interns Hackathon

Farnborough

Education

University of Surrey

Guildford, Surrey

BSc (HONS) IN COMPUTER SCIENCE

Sep. 2018 - Jul. 2022

- Graduated with a First Class Degree

Chartered Institute of Information Security

United Kingdom

ACIISec

Sep. 2020 - Present

- Associate member of the Chartered Institute of Information Security