Shourya Raj **Sharma**

SOFTWARE ENGINEER

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Summary

Mid-level software engineer at Qube Research & Technologies with 3+ years of experience in backend development, microservices, and event-driven systems. I'm language agnostic, with proficiency in Python, and experience in Java and .NET Core. I design and implement efficient data pipelines and scalable streaming solutions, and am committed to delivering high-quality, performant backend solutions that drive business value and support seamless user experiences.

Skills

DevOps	AWS, Docker, Kubernetes, Gitlab CI/CD
Backend	Python (FastAPI / Flask / Django), Ruby on Rails, Node.js, .NET Core
Front-end	React.js, Remix, Redux
Programming	Node.js, Python, JAVA, C#, Go, LaTeX
Databases	MongoDB, PostgreSQL, MySQL, Kafka
Languages	English, Hindi

Experience

Qube Research & Technologies　　　　　　　　　　　　　　　　　*Greater London, London*

QUANT TECHNOLOGIST　　　　　　　　　　　　　　　　　　　　　*Jan. 2024 - Present*

- 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.
- Developed an automated CI/CD process to integrate said testing framework into Jenkins, allowing for the application to be thoroughly tested before being pushed into a production environment - this improved software reliability.

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