

Kuljeet Kaur Panesar

Flintshire/London

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PROFILE

Enthusiastic and highly driven Software Developer with 2 years' experience in developing and maintaining scalable applications in the energy and commodities sectors. Academic background in mathematics with a deep understanding of algorithms and a proactive approach to problem-solving. Proficient in Java with an interest and hands-on experience in TypeScript and React. Passionate about self-learning to keep up to date on best practices and new technologies/frameworks. Thrive in high pressure environments and excel at collaborating across teams, understanding requirements and delivering high-quality solutions.

PROFESSIONAL EXPERIENCE

***Currently employed by FDM, contracted out to Mercuria**

Software Engineer

Mercuria

03/2024 – Present

Member of the Risk Technology team, maintaining and enhancing microservices used to evaluate and store PV and Risk for trading systems.

- Developed and maintained various risk data warehouse services built primarily in Java and Spring Boot, using REST APIs, gRPC, message-driven architecture (Kafka) and data pipelines to ensure reliable and scalable access of risk data across the front and middle office systems.
- Integrated a new system with gRPC into existing microservices, enabling real-time data streaming.
- Implemented authentication mechanisms in services to ensure secure access and data integrity.
- Collaborated with cross-functional teams in order to understand and deliver business requirements quickly and efficiently.
- Interacted with clients of design tools used at the company to request added functionality to improve authorization.
- Resolved high-priority production incidents with tight deadlines, minimising downtime for risk-critical systems.
- Managed deployments using Kubernetes, ensuring smooth rollout of services with no downtime.
- Demoed new features and enhancements across departments in the organisation, using feedback to improve current processes and implement beneficial features.
- Built a solid foundation on design principles and fundamentals of software engineering and continuously upskilling to ensure I adhere to best practices in my code.
- Proactively expanded business and technical knowledge, communicated across all departments in the company and engaged in internal mentorship to continuously improve technical skills.

PROJECTS

- Integrated a new flow to value new trades via gRPC that had not been modelled in our existing systems to get valuations and schedules from an in-house model created by the Strats.
- Created new ETL pipelines in an existing project using Spring Batch. The jobs run on a quartz scheduler to pick up market data from broker files from a variety of sources, read, process and write the data into position curves to be used by Middle Office and traders.

Software Developer**Shell****08/2023 – 11/2023**

Received exposure to a wide range of programming languages and methodologies.

- **Active Listening:** Engaged in conversations with highly experienced members of the leadership team to understand steps to take to progress efficiently through my own career.
- **Innovation:** Conceptualised a potential new system to optimise project allocation to benched employees improving cost and time efficiency.
- **Learning:** Practiced clean code and adhered to object-oriented-design principles
- **Problem Solving:** Observed gaps in the operational systems and proposed new ideas that could be beneficial for managers going forward.
- **Upskilling:** Engaged in LinkedIn Learning and developed fully functioning projects using new programming languages to grasp new concepts at a higher level.

Software Development Consultant**FDM Group****04/2023 – Present**

Completed 14 weeks of training to obtain my Software Development certification. Successfully secured a placement at Shell prior to starting training.

- **Attention to detail:** Participated in code reviews with peers to help debug my own and others' work. Additionally, using my analytical capabilities to refactor code to be more concise and readable.
- **Creativity:** Produced unique designs and concepts in the frontend for projects throughout training whilst ensuring full functionality.
- **Communication:** Improved verbal and written communication in terms of programming to explain code to a range of experience levels.
- **Organisation and Time Management:** Adhering to strict weekly deadlines for assessments whilst ensuring quality of work and understanding new concepts fully.
- **Problem Solving:** Used a logical approach to solve new problems with the aid of all available resources.

TECHNOLOGY SUMMARY

- **Programming/Languages:** Java, JavaScript, TypeScript, React, SQL
- **Frameworks/Libraries:** SpringBoot, Dropwizard, React, Node.js
- **Testing Tools:** Junit, Cypress
- **Microservices & APIs:** REST APIs, gRPC, GraphQL, Web API
- **Containerisation/Orchestration:** Apache Kafka, Kubernetes, Docker
- **Data Virtualization & Integration:** Denodo
- **Version Control:** GitHub, GitLab

PREVIOUS EXPERIENCE**Customer Assistant****Marks and Spencer****01/2022 – 04/2023**

Collaborated with the retail operations team to deliver excellent customer service. Developed strong communication, teamwork, and problem-solving skills in a fast-paced environment. Took initiative in training new staff and creatively optimised product displays within store standards.

EDUCATION**BSc Mathematics - Aberystwyth University (2018-2021) – 2:1****Hawarden High School (2010-2018)**