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Summary

Backend Software Engineer with strong expertise in Java and Spring Boot, experienced in building scalable, high-performance systems. Adept at solving complex problems in distributed environments, with a focus on clean, maintainable code. Skilled in database management, API development, and Test-Driven Development (TDD), and comfortable working in agile, collaborative environments.

Experience

The Hut Group (THG) *March 2024 – Present Graduate Software Engineer, Manchester, UK*

- Developed a high-performance querying system capable of processing 100,000 products per second using SQL, significantly improving data retrieval times for e-commerce applications.
 - Built and deployed distributed backend services using Java and Spring Boot, optimizing for scalability and reliability in production environments.
 - Contributed to the adoption of TDD practices, improving test coverage and code reliability.
 - Worked with messaging systems such as Apache MQ and RabbitMQ to enhance service communication and maintain data consistency across distributed systems.
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The Hut Group Accelerator Programme *September 2023 – March 2024 Trainee Software Engineer, Manchester, UK*

- Completed extensive training in backend (Java, Spring Boot) and frontend (React, Angular) development, delivering projects with a strong focus on clean architecture and security.
 - Contributed to the design and development of scalable applications, implementing best practices in API design, compliance, and testing.
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Silicon Grid *February 2023 – September 2023 Power Analyst, Remote*

- Contributed to the development of an Active Network Management (ANM) system to optimize power distribution, ensuring compliance with energy regulations.
 - Assisted in implementing machine learning models to predict energy demands, optimizing grid performance and reducing operational costs.
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Education

The University of Manchester *September 2018 – July 2022 Meng Aerospace Engineering with Industrial Experience (2:1), Manchester, UK*

Key Projects

Demand Forecasting Portal — THG

- Designed a robust data processing application using Angular and Spring Boot to support large-scale demand forecasting, ensuring secure and scalable data handling.
 - Implemented strict security measures, ensuring full compliance with industry standards.
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Black Friday Sales Dashboard — THG Accelerator Programme

- Developed a real-time dashboard using React and Java, simulating high-volume sales data during Black Friday.
 - Focused on scalability and API integration to demonstrate system performance in high-traffic scenarios.
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Skills

Languages: Java, Python, JavaScript, SQL **Frameworks:** Spring Boot, Angular, React **Tools:** Apache MQ, RabbitMQ, Git, Docker **Methodologies:** Test-Driven Development (TDD), Agile, Security Best Practices **Other:** Distributed Systems Design, Data Structures, Algorithms

Additional Information

Interests: Compliance Engineering, Software Architecture, Machine Learning, Data Science **Languages:** English (Native)