SUJITH KANNAN KH
SOFTWARE DEVELOPER / DATA ENGINEER

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Professional Summary

Highly accomplished software developer and data engineer with a Master's degree in Data Science and a proven four-year track record in the IT industry. Proficient in Java, Python, and SQL, possessing a strong foundation in software development and a deep understanding of data-driven solutions incorporating data engineering and machine learning. Expertise extends to designing, implementing, and optimizing robust applications that leverage data for actionable insights.

Education

Brunel University London
Master of Science: Data Science and Analytics - *Distinction*
09/2022 - 09/2023, Uxbridge, London

Anna University
Bachelor of Engineering: Electronics and Communication Engineering - *First Class*
06/2014 - 05/2018, Chennai, India

Work Experience

Cognizant - Software Developer

Chennai, India   *03/2020 - 05/2022*

- Directed the migration initiative of transitioning Java-based legacy microservices from Spring Boot to reactive Spring services within the AWS environment. Accomplished the seamless migration of Verizon's payment and billing services, resulting in improved scalability and heightened system responsiveness.
- Actively involved in key areas of application development like requirement analysis, development, testing, and bug identification and fixing.
- Orchestrated internal microservice communication using REST and GraphQL, while utilizing PostgreSQL for microservices configuration data storage. Employed Test-Driven Development principles with JUnit and Mockito, and successfully established CI/CD pipelines through Jenkins.
- Adhered to Agile-Scrum methodologies, collaborating with architects and product managers to design resilient software components. Offered extensive technical support, delivered architecture-level presentations, and mentored three new recruits for seamless integration.

Cognizant - Data Analyst

Chennai, India   *08/2018 - 02/2020*

- Conducted security tests, risk assessments, and in-depth data analysis on healthcare software developed in .Net, adhering to Agile processes.
- Identified vulnerabilities, collaborated with cross-functional teams, and implemented solutions to enhance data security measures for healthcare applications and datasets.
- Uncovered actionable insights through rigorous protocols, fortifying protection against potential vulnerabilities, and ensuring the integrity and reliability of healthcare data.

Research Experience

Predictive Modelling for Microservice Decomposition   *06/2023 - 09/2023*

- Spearheaded an ML-focused dissertation project on microservice decomposition in Java-based monolithic systems, showcasing expertise in structural and semantic features.
- Innovated predictive modelling techniques for optimal microservice identification, demonstrating strong proficiency in Java, Python, predictive modelling, and microservices architecture.
- Exhibited a deep understanding of software applications, emphasizing robust analytical and problem-solving skills, contributing significantly to the advancement of microservices in monolithic systems.

Music Genre Categorization: A Distributed Data Study *03/2023 - 05/2023*

- Collaboratively designed and implemented distributed data processing pipelines using PySpark to create music genre classifiers based on diverse features.
- Led the team in evaluating key metrics, including accuracy and F1 score, systematically comparing the effectiveness of different data processing techniques, and showcasing leadership and analytical skills in large-scale data processing.

Book Recommendation with MapReduce *01/2023 - 03/2023*

- Engineered a high-performance book recommendation system with MapReduce and Apache Hadoop, employing user-based collaborative filtering for enhanced accuracy.
- Improved system accessibility and user experience by developing a user-friendly web interface using Streamlit, showcasing proficiency in Java, Apache Hadoop, and Streamlit for superior performance and ease of use.

Personal Projects

- **Age Progression Timer -** Developed an age progression timer app using HTML and JavaScript, then deployed the application on the AWS cloud as an S3 static page, leveraging AWS services for seamless and accessible deployment.
- **Bank Application -** Created a user-friendly web page for a bank loan application using Angular for the front end, Spring Reactive for the backend, and PostgreSQL, ensuring a seamless and efficient banking experience.
- **Chat Room -** Developed an interactive online chat room with Angular for the front end and Java Spring Boot, utilizing WebSocket for the backend, to provide a dynamic and real-time communication platform.

Accomplishments

- Received Cognizant Cheers Awards under the 'Always striving and never settling' category for two consecutive years.
- Received multiple accolades from Clients and Senior Team Members.
- Created mobile games, applications, and several projects centred around data-driven solutions to enrich personal learning journeys.

Technical Skills

- **Coding Languages:** Java, Python, R, C#, HTML/CSS
- **Technology Stack:** Spring Boot/Reactive Spring, RestfullAPI, GraphQL, PyTorch, MapReduce, Microservices.
- **Data Technologies:** Data modeling and analysis, Machine learning, and Deep Learning
- **UX/Visualisation Tools:** Figma, Tableau and Power BI
- **Big Data Analysis:** Apache Hadoop and PySpark
- **Cloud Platforms:** Amazon Web Services
- **Databases:** PostgreSQL, My-SQL
- **Test Driven Development:** Junit and Mockito, JMeter
- **Other Tools:** MS Excel, Git Bash, JIRA, Jenkins, SOAP/Postman

Professional Skills

- Project Management
- Effective Communication
- Critical thinking
- Strategic Analysis
- Technology Integration
- Adaptability
- Conflict Resolution

Certifications

- Python (Intermediate) - HackerRank
- Python Data Analysis with Panda - Udemy
- Python for Data Science - Cognizant Academy
- Java Spring Boot - Certification at Besant Technologies, Chennai