SUJITH KANNAN KH

SOFTWARE DEVELOPER / DATA SCIENTIST

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Professional summary

Highly skilled and experienced software developer with a Master's degree in Data Science and a track record of four years in the IT industry. Proficient in Java, Python, and SQL, I possess a strong foundation in software development and a deep understanding of data-driven solutions. My expertise extends to designing, implementing, and optimizing robust applications that leverage data for actionable insights.

Work history

Cognizant - Associate Software Developer

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

- Specialized in developing and migrating legacy applications of REST microservices in AWS, focusing on the payment and billing conversational layers.
- Actively involved in key areas of application development like requirement analysis, development, testing, and bug identification and fixing.
- Employed Test-Driven Development (TDD) principles with JUnit and Mockito, and successfully established CI/CD pipelines through Jenkins.
- Adhering to Agile-Scrum methodologies and collaborating effectively with architects and technical product managers for well-designed and resilient software components.
- Provided technical support to other product teams while handling internal microservice interaction using REST and GraphQL architectural styles and leveraging PostgreSQL for microservices configuration data storage.

Cognizant - Programmer Analyst

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

- Tested security measures on software applications, performing risk assessments to detect vulnerabilities.
- Proposed solutions, coordinated with the project team, and remedied the identified vulnerabilities, enhancing application security.

Academic Projects

Predictive Modelling for Microservice Decomposition

- Developed a comprehensive dissertation project emphasizing ML-based microservice decomposition approaches in Java-based monolithic software systems.
- Demonstrated competency in both the structural and semantic features of software applications, leading in excellent ways for identifying microservices.

Music Genre Categorization: A Distributed Data Study

- Music Genre Categorization: A Distributed Data Study Implemented distributed classifiers (Random Forest, Decision Tree, Multinomial Logistic Regression) using PySpark to predict music genres based on various features.
- Calculated evaluation metrics (accuracy, F1 score) and compared their effectiveness, alongside data processing techniques, to identify the effectiveness of these techniques for music genre classification.

Book Recommendation with High-Performance Computing Infrastructure

- Employed MapReduce and Apache Hadoop technologies to provide book recommendations, utilizing user-based collaborative filtering.
- Utilized Streamlit to build a web application, enhancing the accessibility and usability of the recommendation system.

Critical Analysis of Tesla's Digital Business Model

- Conducted an in-depth case study on Tesla, Inc., scrutinizing the evolution of their business model through digital innovation, particularly IoT integration
- Examined phases of innovation, from vehicle development to battery technologies, and analyzed the adoption of diverse digital business models.

Hotel Bookings: A Visual Analysis

- Utilized Tableau for data visualization to provide data-driven insights to a hotel's construction team.
- Analyzed booking data to optimize room renovation and construction decisions.

Personal Projects

Auto-ML

- Developed an automated machine learning (Auto-ML) solution with Python, Pandas, pyCaret, and Streamlit.
- Streamlined regression and classification tasks, offering data upload, profiling, model training, and prediction functionalities.
- Simplified the analysis process and facilitated accurate model selection with minimal manual intervention.

The Sorting Hat

- Crafted an engaging project that employs machine learning and an improvised Big Five personality method to allocate users to Hogwarts houses based on their personality traits.
- Designed an interactive experience, adding a touch of Harry Potter magic to user engagement.

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 centered around data-driven solutions to enhance personal learning experiences.

Technical Skills

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

Professional Skills

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

Education

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

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

Certifications

- Python (Intermediate) - HackerRank
- Python Data Analysis with Panda - Udemy
- Spring / Spring Boot - certification at Besant Technologies, Chennai