

SUJITH KANNAN KH

SOFTWARE DEVELOPER / DATA SCIENTIST

☎ (+44) 776 864 2111

✉ khsujithkannan@gmail.com

🌐 <https://suji-2d.github.io/portfolio/>

🌐 www.linkedin.com/in/sujith-kannan-k-h-1046aa145

📍 London, UK

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

- Led the migration of legacy REST microservices to reactive Spring services within AWS, focusing on enhancing payment and billing conversational layers, thereby improving scalability, and enhancing system responsiveness.
- 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

- Conducted comprehensive security tests and risk assessments on healthcare software, collaborating with the project team to identify vulnerabilities and implement robust solutions.
- Strengthened healthcare software security measures, ensuring heightened protection against potential threats and contributing to the safety and reliability of healthcare services.

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.

Book Recommendation with MapReduce

- Leveraged MapReduce and Apache Hadoop for book recommendations through user-based collaborative filtering, offering superior performance, minimal latency and efficient data updating compared to traditional methods.
- Developed a user-friendly web application using Streamlit to improve accessibility and usability, thereby enhancing the overall user experience of the recommendation system.

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.

Critical Analysis of Tesla's Digital Business Model

- Performed a comprehensive case study of Tesla, Inc., scrutinizing the progression of their digital business model, emphasizing IoT integration, and evaluating diverse digital models from vehicle development to battery technologies.

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.
-

Personal Projects

- **Auto-ML** - Developed an Auto-ML solution using Python, Pandas, pyCaret, and Streamlit, streamlining regression and classification tasks with data upload, profiling, model training, and prediction functionalities. It simplified analysis, enabling accurate model selection with minimal manual intervention.
 - **The Sorting Hat** - Utilized machine learning classification technique and an improvised Big Five personality method to sort users into Hogwarts houses based on their traits, creating an interactive Harry Potter-themed experience to enhance user engagement.
 - **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.
-

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:** 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 - *Distinction*

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 - Udemey
 - Python for Data Science - Cognizant Academy
 - Java Spring Boot - Certification at Besant Technologies, Chennai
-