

JOHN JOSEPH ZAGARIAH DANIEL

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Experienced Software Engineer specializing in Data Visualization and Management with Splunk and Power BI. Currently advancing my knowledge through a Master's in Computer Science focused on Applied AI at the University of Ottawa. Seeking to secure a Co-Op position to utilize my expertise in machine learning and data analytics, contributing to transformative projects and solutions.

EDUCATION

University of Ottawa <i>Master of Computer Science, Applied Artificial Intelligence</i> <i>Cumulative GPA: 9.33/10.00</i>	Ontario, Canada Jan 2024 – Present
Panimalar Engineering College, Anna University <i>Bachelor of Engineering, Computer Science and Engineering</i> <i>Cumulative GPA: 8.75 /10.00</i>	Chennai, Tamil Nadu, India Jun 2017 – Aug 2021

EXPERIENCE

Accenture Solution Pvt. Ltd <i>Software Engineer, Data Analyst</i>	Chennai, Tamil Nadu, India Aug 2021 – Dec 2023
<ul style="list-style-type: none">Developed and deployed a Splunk application focused on cost optimization and vulnerability analysis by monitoring Azure Services, resulting in a 25% improvement in resource allocation.Spearheaded the development and deployment of an application in Splunk for resource assignment and analysis in operational readiness testing.Designed and deployed custom REST endpoints in Splunk to address specific business needs, extending platform capabilities and supporting datadriven decision making.Automated manual processes using Python and shell scripting, reducing operational time by 30% and streamlining workflow.Created a custom alert action to send system critical alerts to Microsoft Teams channels, enabling managers and stakeholders to respond quickly.Utilized Splunk and Power BI to build interactive dashboards and generate detailed reports, providing actionable insights for infrastructure monitoring and alert management.Collaborated crossfunctionally with system administrators and network engineers to troubleshoot issues and enhance Splunk performance, ensuring reliable system operations.Successfully onboarded multiple servers via Universal Forwarders (UFs) to the Splunk environment, preparing incoming data for efficient searching and analysis.Performed regular administrative tasks, including user management, role assignment, and access control, to ensure data security and proper system utilization.	

SKILLS

<ul style="list-style-type: none">Programming Languages: Java, PythonML Frameworks: PyTorch, Scikit-Learn, MLOpsSoftware Development: React.js, Django, Spring Core, Spring MVC, JPA, JDBCCloud and Containerization: AWS, Docker	<ul style="list-style-type: none">Database Management: SQL, Oracle, MongoDBVersion Control & Project Management: Git, Github, JenkinsData Visualization: Splunk, Power BI, Excel
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CERTIFICATIONS

Machine Learning Specialization, <i>Coursera</i>	Mar 2023
Java Standard Edition, <i>Accenture</i>	Apr 2022
Deep Learning Specialization, <i>Coursera</i>	Feb 2021
Python for Data Science and Machine Learning, <i>Udemy</i>	Apr 2020

PUBLICATIONS

Ethical Inferences and Study of AI in Music Industry <i>University of Ottawa</i>	Apr 2024
An Autonomous System to Evaluate Technical Interview Process Using Machine Learning <i>Journal of Emerging Technologies and Innovative Research</i>	Mar 2020
Video Analyzer Using Deep Learning <i>SPJMR Journal</i>	Sep 2018

LEADERSHIP

Panimalar Engineering College, Anna University	Aug 2018
Led a team of five in an inter-college hackathon at VIT, where we developed a prototype within 24 hours to alert police and fire stations when a woman screams or in the event of a fire. Our team won second place.	

PROJECTS

Can LLM's Solve Brain Teasers?	Jun 2024
<ul style="list-style-type: none">Evaluated the performance of Google's Gemma and Meta's Llama 3 large language models (LLMs) in solving brain teasers using a multiple-choice question-and-answer dataset from the SemEval 2024 Task 9 competition.Explored three strategies: fine-tuning transformer models like BERT for lateral-thinking-based MCQs, leveraging autoregressive models for maximum likelihood estimation without fine-tuning, and utilizing prompt engineering techniques for enhancing model performance.Investigated the effectiveness of these strategies to determine the models' capabilities and limitations in handling lateral thinking challenges, crucial for real-world applications.	
Semi-Supervised Learning in Banking Marketing Data	Mar 2024
<ul style="list-style-type: none">Collaborated with a team of two to investigate semi-supervised learning methods for addressing label scarcity and class imbalance in a dataset from a Portuguese banking institution's marketing campaign.Implemented and compared four inductive semi-supervised learning approaches: self-training, co-training, semi-supervised ensemble methods, and unsupervised pretraining techniques.Demonstrated proficiency in feature engineering and model construction to handle imbalanced data, achieving significant performance improvements by leveraging unlabeled data alongside limited labeled samples.	