

JOHN JOSEPH ZAGARIAH DANIEL

Ottawa, ON • +1 753 881 0917 • jzaga079@uottawa.ca • [linkedin.com/in/josephjohn2211/](https://www.linkedin.com/in/josephjohn2211/) • [zjohnjoseph.github.io](https://github.com/zjohnjoseph)

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> <ul style="list-style-type: none">Developed and deployed a Splunk application focused on cost optimization by monitoring Azure Services usage, improving resource allocation efficiency by 25%.Automated manual processes using Python and shell scripting, reducing operational time by 30% and enhancing workflow.Designed and deployed custom REST endpoints in Splunk to address specific business needs, extending platform capabilities and supporting data-driven decision-making.Utilized Splunk and Power BI to build interactive dashboards and generate detailed reports, providing actionable insights for infrastructure monitoring, alert creation, and reporting.Collaborated cross-functionally with system administrators and network engineers to troubleshoot issues and enhance Splunk performance, ensuring reliable system operations.Performed regular administrative tasks, including user management, role assignment, and access control, to ensure data security and proper system utilization.	Chennai, Tamil Nadu, India Aug 2021 – Dec 2023
--	---

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
--	---

CERTIFICATIONS

Deep Learning Specialization, <i>Coursera</i>	Feb 2021
Java Standard Edition, <i>Accenture</i>	Apr 2022
Machine Learning Specialization, <i>Coursera</i>	Mar 2023
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 Led a team of five for an inter-college hackathon at VIT to construct a prototype to alert the cops and fire station when a lady screams or in the event of a fire in 24 hours and won second place.	Aug 2018
---	----------

PROJECTS

Can LLM's Solve Brain Teasers? <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.	Jun 2024
Semi-Supervised Learning in Banking Marketing Data <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.	Mar 2024
The Interviewer <ul style="list-style-type: none">Developed an end-to-end website to conduct and manage technical interviews using Python, JavaScript, HTML, CSS, PostgreSQL, and Django.Recorded the candidate's response and created word embeddings using speech recognition and a Universal sentence encoder.Designed an algorithm to evaluate the candidate's response and generate a report with feedback.	Mar 2021