

# SHUB JAURA

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**Summary:** A data-driven software engineer with 3+ years of experience in software engineering, data engineering, and machine learning, specializing in developing scalable solutions in Python & Java using object-oriented designs. Experienced in distributed, multi-tiered systems, algorithms, relational databases and optimization mathematics.

## FULL-TIME EXPERIENCE

<b>Software Engineer - SDE I</b>	
<b>Amazon, Vancouver</b>	June '25 - Present
<ul style="list-style-type: none"><li>Improved system observability by implementing requestId-based advanced logging and fixing missing logs, reducing investigation and root-cause analysis time (Java, AWS, CloudWatch).</li><li>Supported multi-region expansion for 50+ payment plugins across ZAZ and FRA to support Amazon’s internal DARU (Diversifying AWS Region Utilization) initiative to improve latency and optimizes costs and capacity.</li><li>Revamped the payments plugins onboarding experience reducing onboarding time.</li></ul>	

## INTERNSHIP EXPERIENCE

<b>Data Scientist</b>	
<b>Scotiabank, Toronto</b>	Sep '24 – Dec '24
<ul style="list-style-type: none"><li>Designed and implemented a scalable RAG chatbot leveraging <i>LLM</i> Gemini Pro 1.5 and Vertex AI, integrating distributed processing with PySpark to deliver high-performance NLP solutions that offer low latency.</li><li>Leveraged Google Cloud BigQuery, SQL, and Python to extract financial data and applied prompt engineering (<i>few-shot, contextual</i>) with Gemini Pro fine-tuning to generate high-quality financial summaries.</li><li>Leveraged <i>multi-threading &amp; cloud resources</i> to parallelize summary generation, reducing time by 40%</li></ul>	
<b>Machine Learning Research Assistant</b>	
<b>University of Alberta, Edmonton</b>	Sep. '23 – Apr. '24
<ul style="list-style-type: none"><li>Engineered a Temporal Convolutional Neural Networks (TCNNs) model in Python for analyzing time series data from <i>NASA</i> turbofan engine sensors, achieving a mean absolute percentage error of 37.87%.</li><li>Optimized hyperparameters using TensorFlow, Scikit-Learn, and Optuna, enhancing model accuracy.</li></ul>	
<b>Software Engineer</b>	
<b>ATCO Ltd, Edmonton</b>	Jan. '23 – Aug. '23
<ul style="list-style-type: none"><li>Created a full-stack web application using Flask, React, HTML, CSS, and RESTful APIs facilitating file uploads and data input to automate cost savings calculations. Worked in a collaborative, agile environment.</li><li>Validated and help integrate 40+ features and 8 key metrics into Salesforce &amp; performed sandbox testing.</li><li>Designed SQL queries in Oracle Data Warehouse, and automated data integration into PowerBI</li></ul>	
<b>Data Engineer</b>	
<b>ONE Insurance Group, Winnipeg</b>	May '22 – Aug. '22
<ul style="list-style-type: none"><li>Designed and deployed end-to-end ETL pipeline using <i>PyAutoGUI</i>, <i>Python</i> and Azure SDK to extract legacy data, perform transformations with <i>Pandas</i>, and load it into <i>Azure Blob Storage</i>, reducing manual effort by 90%.</li><li>Integrated Azure Cloud Storage and PowerBI, leading to real time dashboarding and \$40K in annual cost savings.</li></ul>	

## EDUCATION

<b>BSc. Computer Engineering</b>	Sep. 2020 – April 2025
University of Alberta	GPA: 3.82/4.0

## SKILLS

<b>Programming:</b> Python, Java, C++, SQL, MATLAB, R, JavaScript, VHDL, HTML, CSS
<b>Data Science:</b> Neural Networks, TensorFlow, Keras, Scikit-Learn, Pandas, NumPy, PyTorch, OpenCV, A/B Testing
<b>Software Engineering:</b> Flask, Django, React, Android Studio, Unix, Git, Docker, Agile, Scrum, Kanban, Jira
<b>Data Engineering:</b> ETL pipelines, Azure Blob, MongoDB, MySQL, Oracle, SQL Server, Hadoop, Spark, AWS S3

## SOFTWARE PROJECTS

<b>LLM ChatBot</b>   <i>Python, Jupyter Notebook, RAG, LLM, Gradio, PyTorch, GPT</i>	Mar. '24 – Apr. '24
<ul style="list-style-type: none"><li>Developed a Retrieval-Augmented Generation (RAG) based chatbot leveraging LlamaIndex for dynamic indexing and retrieval from diverse data sources, enabling real-time, context-aware query responses.</li><li>Integrated Microsoft Phi-2 LLM of Hugging Face LLM to enhance scalability and optimize performance within a 4096-token context window for complex NLP applications.</li></ul>	
<b>EventLinkQR App</b>   <i>Android Studio, Java, Firebase, API, Figma, Scrum, Git, Kanban</i>	Jan. '24 – May. '24
<ul style="list-style-type: none"><li>Built a mobile app in Android Studio using Java, Google Cloud Firebase, and UUID-based sign-in, incorporating QR code scanning for event check-ins, real-time messaging and geolocation verification via Google Maps API.</li><li>Enhanced UX with Figma, following Scrum methodology and utilizing Git for version control.</li></ul>	