

# 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> <i>Amazon, Vancouver</i>	June '25 - Present
<ul style="list-style-type: none"><li>Improved system observability by implementing requestId-based structured logging and resolving missing logs in distributed services, reducing investigation and root-cause analysis time (Java).</li><li>Supported multi-region deployment of global payment services to improve latency, optimize cost, and balance regional capacity utilization.</li><li>Revamped the onboarding experience for payment integrations, significantly reducing time to onboard through streamlined, automated process.</li></ul>	

## INTERNSHIP EXPERIENCE

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

## EDUCATION

<b>BSc. Computer Engineering</b> <i>University of Alberta</i>	Sep. 2020 – April 2025 <b>GPA: 3.82/4.0</b>
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## 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, BedRock
<b>Software Engineering:</b> Flask, Django, React, Android Studio, Unix, Git, Docker, Agile, Scrum, Kanban, Jira, CI/CD
<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>	