

Peter Verzhanskyi . Jarvis Consulting

I am a George Brown College graduate actively pursuing a Data Engineering role, with a strong focus on PySpark, Databricks, and distributed data processing. Backed by nearly a decade in IT and recent hands-on experience with cloud-native tools like Azure Databricks, I specialize in building scalable data pipelines and performing in-depth analytics using Spark, Python, and SQL. I am passionate about transforming raw data into actionable insights and thrive in environments that demand critical thinking, adaptability, and collaboration. Working towards Databricks Data Engineer Associate Certificates. My mission is to bring value to data-driven teams by engineering robust, optimized, and maintainable solutions.

Skills

Proficient: PySpark, Java, JavaScript, Python, Linux/Bash, RDBMS/SQL, NoSQL/MongoDB, Agile/Scrum, Git, Salesforce

Competent: NextJS, Laravel, Angular, iOS Development, ReactNative, HTML/CSS

Familiar: C#/.NET, Android Development, TypeScript, SpringBoot, jQuery

Jarvis Projects

Project source code: https://github.com/jarviscanada/jarvis_data_eng_PeterVerzhanskyi

Cluster Monitor [GitHub]: Created and deployed a Linux cluster monitoring agent built on a Docker-contained PostgreSQL database to perform data analysis about node performance. Developed a bash script to automate creating/starting/stopping the PSQL Docker container based on arguments to the script. Automated the creation of PSQL database tables using a custom DDL script. Developed shell scripts to connect to the PSQL database and populate tables using Linux hardware monitoring commands. Automated the collection of node usage data on a one-minute interval using crontab. Built and manually tested the app in a Google Cloud Platform (GCP) provisioned virtual machine using Rocky Linux 9 as the operating system.

Core Java Apps [GitHub]:

- **Grep App:** Developed a robust simulation of the Linux Grep Command Line Tool in Core Java. Leveraged Maven for build management and Docker for deployment. This tool allows users to input a regex pattern, specify a starting directory, and select an output file, generating a comprehensive list of matched lines for further analysis, enhancing search efficiency and data handling.
- **Stock Quote App:** Developed a Personal Stock Wallet application in Core Java, allowing users to buy, sell, and track stocks effortlessly. Integrated an external RESTful API for real-time stock data retrieval and utilized PostgreSQL via JDBC for managing a centralized repository of stock information. This platform-independent application ensures seamless operation across various systems, enhancing user experience and accessibility.

Python Data Analytics [GitHub]: Delivered data-driven insights for an online retailer by analyzing sales performance and customer behavior. Produced reports on user growth, revenue trends, and business KPIs. Segmented customers using RFM (Recency, Frequency, Monetary) scoring to support targeted marketing strategies. Explored opportunities to accelerate company growth through actionable recommendations based on analytical findings. Tools and technologies: Python, Jupyter Notebook, PostgreSQL, Docker.

Spark [GitHub]: Drove insights from World Development Indicators and retail datasets using PySpark on Google Cloud Dataproc (Zeppelin notebook) and Azure Databricks (notebook environment). Processed millions of records with distributed computing to extract country-level GDP and development metrics, and analyzed retail sales trends, growth rates, and new user acquisition. Delivered actionable strategies to boost revenue and customer growth by leveraging cloud-native big data tools like GCP Storage, Azure Data Lake, and Spark SQL.

Salesforce [GitHub]: Developed a flexible account management app using Salesforce Lightning Web Components (LWC) to deliver dynamic and responsive user experiences. Implemented custom components for editing, filtering, and displaying account records, integrating with Salesforce data services via Apex controllers. Strengthened skills in Salesforce platform development by working with Lightning App Builder, custom objects, and reusable component design patterns. Technologies used: Salesforce Platform, Lightning Web Components, Apex, SOQL, Visualforce, and Trailhead Playground.

Databricks ETL Pipeline [GitHub]: Designed and implemented a full-scale ETL pipeline using the Medallion Architecture (Bronze, Silver, Gold) on Azure Databricks to process booking data for a fictional club. Ingested raw CSV files into Delta tables (Bronze), enriched and joined datasets with member and facility dimensions (Silver), and aggregated

business metrics for BI (Gold). Created dashboards in Databricks SQL to visualize revenue breakdowns, facility usage, and booking trends. Optimized transformation logic with PySpark and notebook modularization, and incorporated best practices like schema enforcement, time travel, and data lineage with Unity Catalog. Tools and technologies: Databricks, PySpark, Delta Lake, SQL, Unity Catalog, Azure Data Lake.

Highlighted Projects

Capstone Project: MaplePay app [GitHub]: MaplePay is a Capstone Project, built using NoSQL/MongoDB, Angular and React. It is a fintech demo project, built to provide a seamless experience through a Web-app and a ReactNative solution.

Professional Experiences

Software Developer, Jarvis (2024-present): Collaborated with an agile team to support the development of multiple projects. Created a Linux cluster monitoring agent to collect node performance data, leveraging Docker, Bash scripting, and PostgreSQL.

Junior Full-Stack Developer, 789ten.com (2024-2024): Contributed to fixing various bugs and completing different tasks in NextJS and Laravel applications. Created clear, well-documented pull requests and worked closely with lead developers to prioritize tasks in a ticketing system. Utilized SQL expertise to optimize slow-performing queries.

System Administrator/IT Consultant, Ponacka Capital Ltd. (2017-2023): Oversaw a Windows-based environment, ensuring optimal system performance and security. Managed hardware maintenance, performed system upgrades, and implemented improvements. Delivered technical support to staff, resolving issues efficiently and boosting productivity.

Education

George Brown College (2021-2024), Advanced College Diploma, Computer Programming and Analysis - Multiple Scholarships - IEEEExtreme 17: #3 in Canada, #573 Worldwide

V. N. Karazin Kharkiv National University (2009-2014), Master of Applied Physics, Radio Physics and Radio Electronics, Speciality: Quantum Physics - Scholarships

Miscellaneous

- Working towards Databricks Data Engineer Associate
- Salesforce Trailhead Badges Earned
- George Brown College Student Grants
- Artist Development Grants for Canadian Musicians
- Canadian rock musician and multiple-time recipient of artist development grants. Band experience has strengthened skills in collaboration, communication, leadership, and project coordination.