

TECHNICAL SKILLS

Programming Language	Java, Python, C#, Swift
Database	MySQL, PostgreSQL, MongoDB
Data & Analytics	ETL Pipeline, Data Cleaning & Transformation, Data Modeling, Power BI (Data Visualization, Reporting)
Cloud Computing	AWS (EC2, S3), Azure, GCP, Docker, CI/CD, Jenkins
Relevant Skills	Docker, Git, Linux, Agile/Scrum, Unit Testing, Security

RELEVANT EXPERIENCE

Scientific Data Analyst
 Jan 2025 – Present

Energy Innovation Center – RDP, Red Deer, AB

- Owned and supported cloud-hosted data environments for applied research projects, ensuring data availability, security, and reliable access for analytics and reporting.
- Designed and automated end-to-end ETL pipelines to ingest data from IoT devices and external APIs, standardizing datasets for scalable analysis and dashboarding.
- Converted unstructured and semi-structured research data into structured, SQL-ready datasets to support analytics, reporting workflows, and ongoing research initiatives.

Applied Research Tech - Data Analyst
 May 2024 – Dec 2024

Center of Manufacturing and Energy Innovation – RDP, Red Deer, AB

- Built and maintained ETL pipelines to clean, transform, and standardize experimental and solar energy datasets, ensuring data accuracy and consistency for analysis and reporting.
- Supported data access and reporting tools that enabled researchers and industry partners to securely query, analyze, and manage research datasets.
- Conducted solar efficiency analysis by comparing experimental results with modeled data and designed interactive Power BI dashboards to deliver real-time insights and support data-driven decision-making.

PROJECTS

QNEXTS (link)	Next.js, TypeScript, Tailwind CSS, Firebase, Google Genkit
- Designed data models to capture real-time audience engagement metrics from QR-based interactions during live presentations. - Built multi-tenant analytics dashboards to track participation, content access, and engagement trends across teams and events. - Enabled structured data collection and reporting to support insights on audience behavior and presentation effectiveness.	
SENTINEL RAG (link)	FastAPI, React, TypeScript, Ollama, FAISS, Unstructured.io
- Built a privacy-first document analytics system to extract, structure, and analyze data from PDFs and DOCX files. - Implemented data processing pipelines to transform unstructured documents into queryable, structured datasets. - Supported metadata analysis and reporting workflows to enable efficient document search, auditing, and insight generation.	
INDine.ca (link)	React, TypeScript, Firebase, PostgreSQL, Azure, Tailwind CSS
- Designed and implemented a multi-tenant PostgreSQL database schema to track customer engagement and reward activity. - Built analytics pipelines to support real-time reporting on customer retention and usage metrics. - Delivered dashboards providing restaurant owners with actionable insights into customer behavior and platform performance.	

EDUCATION

Computer Programming Diploma – 2024
 Red Deer Polytechnic

- Listed on the President’s List at RDP as top student with a GPA of 3.8 or Higher out of 4.0.

BSc Computer Science – 2022
 Indira Gandhi National Open University

- Developed strong foundations in programming, databases, and analytical problem-solving.

CERTIFICATIONS & EXTRA-CURRICULAR

- Certified TCPS 2 CORE-2022 - Government of Canada, Google Analytics Certification
- Winner of All India Science Competition organized by World Science Congress. (2019)
- Winner of NASA Space App Challenge Edmonton. (2025) Featured in [Red Deer Advocate](#) | [Central Alberta Online](#) | [CTV](#)
- Central Alberta’s 40 Under 40 Honoree (2025). [United Way](#)

Presentations: -

- Sen D., Herathge S., Chauhan, AK., Allan, B., (September 17, 2024). Solar Data Sharing Alliance: Illuminating the Future, Alberta Corridor Technical Symposium (2024), NAIT, Edmonton, Alberta.
- Herathge S., Chauhan, AK., (March 12, 2025). IoT and Data Analytics in Action: Transforming RDP’s Alternative Energy Lab Building into a Living Lab for GHG Reduction, 4th Annual Research Showcase (2025), RDP, Red Deer, Alberta