

# Kunj Pathak

+1 (782)-882-8522 | [kn743706@dal.ca](mailto:kn743706@dal.ca) | [in kunjpathak12](https://www.linkedin.com/in/kunjpathak12) | [Portfolio](#) | [KunjPathak12](#)

## Technical Skills

**Languages:** Java, Python, SQL, C, HTML, CSS, JavaScript

**Frameworks & Libraries:** Spring Boot, Spring Security, Node.js, ReactJS, ViteJs, Tailwind CSS, Bootstrap, scikit-learn

**Databases:** MySQL, MongoDB, PostgreSQL, Redis, AWS DynamoDB, OracleDB, SQL Server

**Data Engineering Tools:** PySpark, Azure Data Factory, Databricks, AWS Glue, Apache Spark

**DevOps & Cloud Technologies:** Docker, CI/CD, Kubernetes, Terraform, Jenkins, AWS, Azure, Google Cloud

**Version Control & Tools:** Git, Postman, Gitlab, Github, Gitlab Board, Jira, MongoDB Compass, MySQL Workbench, Linux

**Other:** OOP, Agile(Scrum), SDLC, Microservices, REST APIs, JUnit, SOLID Principles, TDD(Test Driven Development), MS Office

## Experience

### Data Engineer Intern

12/2022 – 03/2023

Diggibyte Technologies Private Limited

Bangalore, India

- Designed and maintained **ETL pipelines** with **PySpark**, **Azure Data Lake & Blob Storage**, and **Azure Data Factory**.
- Streamlined **data transformation** with **Databricks**, improving workflow efficiency and ensuring **data quality** through in-depth **unit-testing** of the **Spark application**.
- Collaborated on a **proof-of-concept project** led by the **CTO**, integrating **DBT and Docker solutions** to enhance process efficiency.
- Researched **Azure Synapse Analytics** and **provided actionable insights** to the team, facilitating informed decisions on tool integration

### Web Developer Intern

01/2022 – 04/2022

Imbuesoft L.L.P

Gujarat, India

- Constructed **responsive web interfaces** using **ReactJS**, enhanced user interaction through encompassing **React Router**.
- Executed **backend** functionality using **Node.js**, optimizing **server-side processes** to improve application performance, which led to faster load times and a smoother user experience.

## Education

### Dalhousie University — GPA: 4.0 / 4.3

NS, Canada

Master of Applied Computer Science

01/2024 – 05/2025

### Gujarat Technological University — GPA: 8.46 / 10

Gujarat, India

Bachelor of Computer Science and Engineering

06/2018 – 06/2022

## Projects

### Tiffin Box WebApp (Full Stack Web Development) Java, Spring Boot, Spring Security, React, JWT, MongoDB

[\[Github\]](#)

- Engineered a Secure **Web Application** with **Spring Boot**, **Spring Security**, and **React**, developed robust **Authentication** and **Authorization** features, including **JWT** and **role-based access control**.
- Created user-centric **REST APIs** for **Authentication**, **Profile Management**, **Payment Intent** and **Multipart Image Uploads**.
- Enhanced **User Experience** using **Tailwind CSS** and **Daisy UI**. Further, **integrated** a secure **Stripe Payment Gateway** for convenient **online transactions**.

### Streaming Stocks Data E.T.L (Serverless Data Engineering) PySpark, AWS: EventBridge, Glue, Lambda, SNS

[\[Github\]](#)

- Architected and developed a scalable **real-time data pipeline** using **PySpark** and **AWS services**, converting **raw stock data** from the **Polygon API** into **Parquet format** for **optimized storage** and **querying**.
- Deployed an **event-driven architecture** with **AWS EventBridge** and **Lambda functions** and, achieved an **80% reduction** in **infrastructure provisioning time** through **AWS CloudFormation**.
- Leveraged **AWS Glue** for **data cataloging** and **ETL job management**, ensuring seamless **data transformation** and integration with downstream analytics tools.

### K8s MicroServices (DevOps) Kubernetes, Docker, GCP, Spring Boot, Terraform, CI/CD, Cloud Build

[\[Github\]](#)

- Designed and implemented a **Microservices Architecture** on **GCP** using **Kubernetes** and **Docker**.
- Built and managed a **Kubernetes cluster** with **Google Kubernetes Engine** for efficient container orchestration.
- Automated CI/CD** pipelines with **Cloud Build** and **Artifact Registry**, streamlining deployments, thereby provisioning infrastructure through **Terraform** for consistent deployments.

### Image Caption Generation (Generative AI) VisionTransformer, GPT-2, Hugging Face Transformers, Python, NLP, CV

[\[Github\]](#)

- Implemented an image captioning system using a **pre-trained VisionEncoderDecoderModel** from **Hugging Face**, integrating **Vision Transformer (ViT)** with **GPT-2** for effective image **feature extraction** and caption generation.
- Harnessed the **Hugging Face Transformers** and **OpenCV** library to drive efficient project development in Natural Language Processing and Computer Vision.