

# Dhruv Mittal

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## WORK EXPERIENCE

### **Analytics Engineer Intern— BMW Group, USA**

**May 2023-December 2023**

- Reduced active licenses from 1.7M to 250k, saving \$200K by creating and maintaining data pipelines to track AAF license usage across systems using **Power BI, SQL, and Python** by identifying redundant accounts.
- Collaborated in Agile sprints, contributing to UI development, testing, deployment (Git), across a team of 7.
- Improve malicious activity detection by 40% by developing ETL pipeline & visualization board to monitor activity logs using **Python, SQL, AWS, and PowerBI**.
- Produced a comprehensive user documentation and provided ongoing support, resulting in a 30% reduction in helpdesk tickets while successfully onboarding over 200 new Bitwarden users.

### **Software Engineer – UNITASLOGISTIX PVT LTD, INDIA**

**January2022 - July 2022**

- Engineered a real-time logistics web platform using **React, JavaScript** enabling clients to request real-time shipping quotes based on commodity, container size, route, and seasonality.
- Delivered modular and reusable UI components & a backend service integrating **Rest APIs in Node.js** via **Axios** for real-time shipping rate retrieval, validated via Postman and automated unit tests.
- Architected a responsive frontend UI using Tailwind CSS, and managed **MongoDB**-backed schema for tracking historical and real-time quote data, enabling advanced analytics and seasonal pricing insights.
- Enhanced operational efficiency by streamlining communication between logistics teams and clients, reducing manual coordination by **60%** and accelerating query response time by **3x**.

### **Software Engineer – REVMEUP, INDIA**

**January2021 - July 2021**

- Developed a social review web platform using **React, Node.js, APIs, and MongoDB**, attracting 1,500+ users and handling 5,000+ product reviews.
- Restructured product search analytics by creating custom data structures resulting in 30% increase in search efficiency.
- Migrated database from **Postgres** to **MongoDB**, enhancing performance and increasing the platform efficiency by 30%.
- Integrated and tested **RESTful services** with Axios and handled asynchronous data fetching using JS promises and fetch APIs.

## ACADEMIC PROJECTS

### **Subscription Management System - [Link](#)**

**April 2025**

- Created a production grade backend system using **Node.js, Express & MongoDB**, implementing **JWT** authentication, server-side logic & Rest API design.
- Integrated automated backend workflows for subscription handling, email notification and payment processes.

### **Smart Email Assistant - [Link](#)**

**May 2025**

- Built an AI Assistant using **Java, Spring, and React**, enabling AI generated replies integrated via a browser extension.
- Boosted email response efficiency by 60% through integration with **Google Gemini** for natural language understanding.

### **DocuChat AI – PDF Chat - [Link](#)**

**March 2025**

- Engineered a Gen AI chat platform for pdf interactions using **React, TypeScript, Pinecone, Langchain, OpenAI & Clerk**.
- Developed multi-agent workflows and document loaders, deployed with **Vercel & Stripe** for seamless monetization.
- Applied retrieval-augmented generation (RAG) for context-aware answers with a 95% response accuracy.

### **CI/CD ML Deployment Pipeline - [Link](#)**

**February 2025**

- Developed a predictive ML model with 91% accuracy through data cleaning and feature engineering using **Python**.
- Automated CI/CD pipeline using **GitHub Actions & Docker**, enabling scalable and efficient deployment on Heroku.

### **Smart City Real Time Data Streaming Pipeline - [Link](#)**

**January 2025**

- Developed a real-time data streaming pipeline using **Python, Kafka, and Spark**, processing over **1,000 records/sec**.
- Automated ingestion and transformation of data; stored results in **AWS Redshift** and visualized KPIs in **Power BI**.

### **WebRTC – Video Call App - [Link](#)**

**November 2024**

- Built a real-time video calling app using **React, WebRTC & Socket.io** for peer-to-peer communication & low latency.
- Engineered backend using **Node.js**, deployed on **AWS EC2** via **Docker**, ensuring high performance and scalability.

## SKILLS

**Programming Language:** Python, C++, JavaScript, Java, SQL, TypeScript, HTML, CSS, Tailwind CSS

**Frameworks:** React, React Native, Next.js, Node.js, Express, Hadoop, Hive, Spark, Kafka, Spring, Flask, Django

**Tools:** Docker, API, AWS, Azure, Power BI, MongoDB, Tensorflow, Sklearn, Bitwarden, NPM, Git, Google Firebase

## EDUCATION

**Master of Science, Computer Science**

**August 2022 – December 2024**

University of Texas at Dallas

**Bachelor of Technology, Electronics and Communication Engineering**

**July 2018 – June 2022**

Indian Institute of Information Technology (IIIT)