

# Vaibhav Bakliwal

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## EDUCATION

### University of Wisconsin-Madison

M.S. Information Science | Data Track - GPA : 3.8/4.0

Coursework: Decision Making, Data Visualization, Database Management, Project Management

Madison, USA

Graduation Date : May 2025

### University of Pune

Bachelor of Engineering in Electronics and Telecommunications - GPA: 3.2/4.0

Coursework: Object Oriented Programming, Data Structures, Operating Systems, Database Management System

Pune, India

Graduation Date : Apr 2020

## EXPERIENCES

### Cerence

Pune, India

#### Data Engineer

Feb 2021 - Jun 2023

- Managed cloud infrastructure components on Azure, leveraging services like **Azure Data Lake**, **Azure SQL Database** and **Azure Kubernetes Service (AKS)**, leading to a **40% increase** in scalability and a **25% improvement** in system reliability for in-vehicle infotainment systems, translating to enhanced user experiences and **reduced downtime**.
- Designed and implemented data processing systems to **extract, transform, and load** structured and unstructured data from various sources including vehicle sensors, user interactions, and external APIs.
- Implemented automation scripts, **CI/CD pipelines**, and infrastructure-as-code practices using tools like **Jenkins** and **Azure DevOps** to streamline deployment, monitoring, and maintenance of data-related services and applications.
- Created **3 Power BI** dashboards integrated with the **data warehouse**, equipping stakeholders with actionable insights into vital testing metrics for **effective decision-making** aligned with **KPIs**.

### Amazatic

Pune, India

#### Software Intern

Mar 2019 - Jun 2019

- Designed and developed various website pages and web apps, ensuring functionality and user satisfaction.
- Implemented cross-browser compatibility testing to ensure seamless functionality across popular browsers such as Chrome, Firefox, Safari, and Edge, guaranteeing a consistent experience for all users.

## PROJECTS

### Swapnapurti Foundation (NGO) (<https://www.swapnapurti.org>)

- Designed and developed a content management system (CMS) which enables the volunteers to manage their events, attendance, registrations, etc. The admin can track the record of every volunteer and manage the team.
- Created a payment gateway for accepting donations/membership fees.
- Tech Stack: HTML, CSS, Bootstrap, JavaScript, PHP, MySQL, PayU payment gateway.

### Pokeverse (<https://github.com/bakliwalvaibhav1/Pokeverse>)

- A Pokédex application integrated with an open-source RESTful API, compatible with both android and iOS platforms.
- Tech Stack: AngularJS, Ionic, API.

### YouTube Video Analytics: Analyzing Youtube trend data with AWS & PowerBI

Dec 2024

- Led the transformation of a significant YouTube Trending Video Statistics dataset, comprising over **320,000 records**, using AWS services like **S3**, **Lambda**, **Glue ETL**, and **Athena** to enhance data storage, conversion, and consolidation efficiency.
- Facilitated enhanced **data interpretation and visualization** by seamlessly integrating **AWS Athena** with **Power BI**, emphasizing critical performance indicators such as video reach, engagement, and likes-to-views ratio across diverse geographical regions.

### Weather Data ETL Pipeline on AWS with Apache Airflow

Oct 2023

- Designed and automated **3 ETL workflows** using **Apache Airflow**, proficiently configuring DAGs and leveraging Operators to extract real-time weather data from the **Open Weather Map API**.
- Processed and cleaned data to ensure high quality before storing it in a designated **S3 bucket**, enabling accurate data analysis.

## SKILLS & CERTIFICATIONS

- Technical Skills:** HTML, CSS, JavaScript, ReactJS, Angular, PHP, JSON, Python, SQL, PowerBI, Tableau, Excel, Jenkins.
- Data Visualization Tools :** Tableau, Microsoft Power BI, Matplotlib.
- Cloud Services:** **Azure :** ADLS, Databricks, Azure Active Directory, Azure Data factory, SQL workbench, SSIS, Azure Synapse | **AWS :** AWS EC2, S3, SageMaker, AWS Redshift, AWS Glue, AWS Lambda | **GCP :** GCP Compute Engine, GCP BigQuery
- Collaboration Tools:** JIRA, Confluence, Git