

UBAID ULLAH KHAN



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SUMMARY

Data-driven Engineer with expertise in **ETL pipelines, data processing, and machine learning**, leveraging **Python, SQL, Snowflake, and cloud platforms (AWS, Azure)** to build scalable solutions. Skilled in **data visualization (Tableau, Power BI), predictive analytics, and automation** to optimize decision-making. Experienced in **statistical modeling, feature engineering, and AI-driven analytics**, integrating insights into real-world applications. Adept at **software development** and deploying **efficient, end-to-end data workflows**. Passionate about driving innovation through data and cutting-edge technologies.

SKILLS

Programming & Development: Python, SQL, JavaScript, C/C++, HTML, CSS, React, Node.js

Data & Analytics: ETL Pipelines, Exploratory Data Analysis (EDA), Data Preprocessing, Statistical Modeling, Predictive Analytics, Data Wrangling, Feature Engineering, Machine Learning, LLMs, Deep Learning, Keras, TensorFlow, PyTorch, Pandas, Numpy, Scikit-learn, Natural Language Processing (NLP), Data Visualization (Tableau, Power BI, Matplotlib, Seaborn), Generative AI

Tools & Technologies: Jupyter Notebook, Google Colab, Git/GitHub, Jenkins, Visual Studio Code, Snowflake, PostgreSQL, MongoDB, MySQL, Databricks, Apache Spark, Kafka, Hadoop, Prisma, RESTful APIs, Windows, MacOS

Cloud & DevOps: AWS, Azure, GCP, Docker, Jenkins, Terraform, CI/CD Pipelines

Soft Skills: Problem-Solving, Critical Thinking, Adaptability, Effective Communication, Continuous Learning, Collaboration, Teamwork

EXPERIENCE

InfoVision Inc (Comerica Bank), Dallas (TX)

May 2024 – Aug 2024

Data Analyst Engineer | Summer Internship

- **Developed two automation tools**, reducing manual data processing time by **53%**, leading to **29% team efficiency gains**.
- Engineered **ETL pipelines** using **Python, SQL, and Snowflake**, ensuring **regulatory compliance and accurate reporting**.
- Designed **data transformation workflows**, optimizing large-scale **financial datasets** for predictive insights.

ScooterLab – UTSA, San Antonio (TX)

Nov 2023 - Present

Software Developer & Data Collection Assistant, Research Assistant

- Designed, developed, and deployed **front-end hardware systems** using sensors, Raspberry Pi, and **secure data storage solutions**.
- Enhanced system processes by **40%** through improved **architecture and algorithms**, leveraging **Python, JavaScript, and Fusion360**.
- Collaborated with cross-functional teams, analyzed **micromobility data** to optimize systems through modeling & **data visualization**.

CommLab LLP

Sept 2022 – Jul 2023

Web Development Manager

- Engineered **backend solutions** and led a team of five to deliver optimized **web tools** and **process automation software**.
- Achieved **97%** system uptime and improved eLearning platform performance, **increasing** user engagement.
- Engineered solutions using **HTML, CSS, JavaScript, Figma and WordPress** to optimize processes.

Think.AI Labs, Austin (TX)

Nov 2021 – Feb 2022

Research Intern

- Developed backend systems for **IoT data processing**, enhancing **real-time analysis** and storage capabilities.
- Co-authored a **research paper** on AI's role in Supply Chain optimization, reducing logistical delays by **20%** in test environments.
- Utilized **Python, SQL, and data modeling** techniques to optimize supply chain scenarios.

PROJECTS

SWallet

- **Developed** a secure and scalable **digital wallet** for seamless financial transactions with **real-time fraud detection**.
- Built with **React** for an intuitive interface and **PostgreSQL** for robust and scalable backend architecture, ensuring performance & reliability.

RetroMate

- Built a retro arcade-themed AI chatbot integrating GPT-3.5, IBM Text-to-Speech, and InterSystems IRIS Vector Search for conversational AI.
- Designed efficient **backend pipelines** to optimize **data retrieval** and user interactions.

IntelliSpeak

- Engineered an **AI-powered gesture-based communication tool** to empower individuals with disabilities through accurate translations.
- Utilized **TensorFlow, OpenCV, and Python** to build robust gesture recognition systems, achieving **high prediction accuracy**.

Data-Driven Crop Yield Forecasting

- Built a **machine learning model** to analyze large agricultural **datasets** to forecast crop yields, aiding sustainable farming practices & food security.
- Achieved **85%** prediction **accuracy** leveraging **Python, scikit-learn, and Pandas** for data preprocessing and **model training**.

RESEARCH PUBLICATION

- ScooterLab: A Programmable and Participatory Sensing Research Testbed using Micromobility Vehicles | 2024 - [Publication Link](#)
- Recipe Creation Using Food Images Through Inverse Cooking | 2022 – [Publication Link](#)

EDUCATION

University of Texas at San Antonio

Masters in Computer Science | Aug 2023 – May 2025 | 3.8/4

Jawaharlal Nehru Technological University – LIET

Bachelors in Computer Science | Jul 2018 - Aug 2022 | 3.8/4