

ZAIN ZAHID

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PROFESSIONAL SUMMARY

Computer Science undergraduate with hands-on Python development experience across desktop systems, machine learning, and web backends. Comfortable across the modern web stack – JavaScript, TypeScript, HTML/CSS – with working knowledge of relational databases (MySQL, PostgreSQL). Strong problem-solver who enjoys debugging complex systems and shipping working software end-to-end.

EDUCATION

University of Gujrat

Bachelor of Science in Computer Science

- CGPA: 3.28 / 4.00

Adan IT Center

NAVTTTC – Advanced Web Application Development

Gujrat, Pakistan

2023 – 2027

Gujrat, Pakistan

May 2026

TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), TypeScript, PHP, C++, C#, HTML5, CSS3

Python & Web: Flask, FastAPI, Django (Learning), Pandas, NumPy, Scikit-learn, REST APIs

Frontend: React, Next.js, Tailwind CSS, Bootstrap

Databases: PostgreSQL, MySQL, SQL Server, SQLite

Tools & Concepts: Git, GitHub, VS Code, OOP, Data Structures & Algorithms, Debugging, Machine Learning

PROJECTS

DevDesk AI – AI-Powered Support Ticketing System (*In Development*) | *Django, DRF, PostgreSQL, React, TypeScript, OpenAI API*

- Building a full-stack support ticketing platform with a Django REST Framework backend, JWT authentication, and role-based access for Customers, Agents, and Admins.
- Integrating OpenAI API for automatic ticket classification/prioritization and a RAG-based knowledge base search using PostgreSQL (pgvector) embeddings to generate grounded agent reply suggestions.
- Developing a React + TypeScript frontend with React Query and Tailwind CSS for agent and customer dashboards, consuming the DRF API.

Sentiment Battleground – Multi-Model ML Web App | *Python, Flask, FastAPI, Scikit-learn, Next.js*

- Built a three-tier sentiment analysis system pitting four Scikit-learn classifiers (Naive Bayes, SVM, Logistic Regression, Random Forest) against each other on live text input.
- Designed a FastAPI microservice for model inference and an Express/Next.js layer for the frontend, connected through REST APIs with JSON-based request/response contracts.
- Handled text preprocessing, TF-IDF vectorization, and real-time prediction comparison across all four models with confidence scores.

IronStoreERP – Desktop POS, Inventory & Accounting System | *Python, CustomTkinter, SQLite*

- Engineered a full-featured POS and inventory management system for a hardware store with FIFO-based customer payment ledgers, cash session reconciliation, and role-based access control (Cashier/Admin).
- Designed a relational SQLite schema with WAL-mode crash safety, automated backups, and Google Drive folder-sync integration for disaster recovery.
- Implemented thermal receipt printing, real-time stock updates, and a no-login cashier counter mode with instant admin promotion.

Mushroom Classification – ML Classification Model | *Python, Scikit-learn, Pandas, NumPy*

- Trained and evaluated multiple classification models (Decision Tree, Random Forest, KNN, Naive Bayes) on the UCI Mushroom dataset to predict edibility with high accuracy.
- Performed label encoding, feature selection, and confusion matrix analysis to compare model performance across classifiers.

CERTIFICATIONS

- **Google Cybersecurity Certificate** – Coursera, Google (In Progress)
- **NAVTTTC Advanced Web Application Development** – Adan IT Center (May 2026)