FERIAL NAJIANTABRIZ

+1 (405) 493-3768 | Norman, OK 73071, United States
najiantabriz.ferial@gmail.com ◇ linkedin.com/in/ferial-najiantabriz-365075128 ◇ github.com/ferialnajiantabriz

SUMMARY

Software Engineer / Data Scientist with a strong academic foundation in computer science and hands-on experience in machine learning, cloud computing, and full-stack development. Skilled in Python, Azure, and distributed systems, with a passion for building scalable, intelligent systems. Authorized to work in the U.S.

EDUCATION

Master of Science in Computer Science, The University of Oklahoma Graduated: Spring 2025
Location: Norman, Oklahoma, United States
Relevant Coursework: Natural Language Processing, Data Mining, Distributed Operating Systems, Algorithm Analysis, Discrete Optimization, Parallel and Distributed Programming, Database Systems, Software Engineering, Blockchain and Cryptocurrencies, Bioinformatics, Cybersecurity

Bachelor of Science in Computer Engineering, Islamic Azad University, Tehran Branch, Iran 2009 – 2016

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C++, R, SQL

Frameworks & Libraries: TensorFlow, PyTorch, Scikit-learn, NumPy, pandas, Flask, Streamlit, R Shiny

Tools & Platforms: Git, Docker, Linux, Microsoft Azure (Machine Learning, OpenAI, Blob Storage), VS Code, Jupyter

Cloud & DevOps: Azure Machine Learning, Azure Functions, Docker, GitHub Actions

Core Competencies: Machine Learning, Data Mining, Natural Language Processing (NLP), Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Deep Learning, SQL, Distributed Systems, Software Engineering, UI/UX Design

EXPERIENCE

Teaching Assistant – Algorithm Analysis & Computer Security Jan 2025 – May 2025
University of Oklahoma, Norman, OK

- Led lab sessions, graded assignments, and mentored 100+ students in advanced CS topics.
- Provided technical instruction in algorithms, cybersecurity, and problem-solving.

Student Assistant – Sooner Card Office Summer 2024
University of Oklahoma, Norman, OK

- Supported biometric enrollment and mobile ID integration for campus systems.
- Troubleshot software/hardware issues with engineering team; improved system reliability.
- Assisted with mobile app setup and secure data operations (databases, payments, updates).

Technical Systems Analyst & Support Engineer 2017 – 2021
Mehrpood Company, Tehran, Iran

- Automated system workflows with Python; improved data processing speed and accuracy.
- Developed dashboards to monitor system performance and health in real time.
- Created internal security reports and trained staff on cybersecurity best practices.

Python Instructor 2015 – 2017
Mojtamae Fanni Tehran Institute (MFT), Tehran, Iran

- Taught Python for scripting, data analysis, and machine learning fundamentals.
- Designed hands-on projects and custom curriculum for entry- to mid-level learners.

PROJECTS

Heart Disease Prediction (Machine Learning) Fall 2024
Technologies: Python, Scikit-learn, Streamlit, pandas, UCI Dataset

- Developed and compared classification models (Logistic Regression, Decision Tree, k-NN) to predict heart disease risk.
- Built a Streamlit dashboard for interactive model evaluation and result visualization.

Interactive Analytics Dashboard (R Shiny) Spring 2024
Technologies: R, Shiny, ggplot2, dplyr

- Designed a responsive dashboard for real-time visualization and exploratory data analysis of user-uploaded datasets.

Capstone Management System (CMS) Spring 2024
Technologies: Python, Flask, SQLAlchemy, Docker

- Engineered backend using Flask and ORM with SQLAlchemy for relational database operations.
- Built student portal with login/authentication and CI/CD deployment using Docker.

Job-Shop Accounting System Fall 2023
Technologies: Java, Azure SQL, JDBC

- Designed relational schemas and implemented transactional SQL queries in Azure SQL.
- Built a Java GUI and integrated it with dynamic web-based forms via JDBC.

PUBLICATIONS

F. Najiantabriz, and M. Shams. "A New Strategy in Trust-Based Recommender System Using K-Means Clustering." *International Journal of Advanced Computer Science and Applications (IJACSA)*, vol. 8, no. 9, 2017, pp. 148–153. DOI: 10.14569/IJACSA.2017.080922

AWARDS & HONORS

Graduate Assistantship (NRTW), Spring 2025

Graduate Assistantship (RTW), Spring 2025

Nettie Vincent Boggs Graduate Endowment, 2024–2025

Farzaneh Scholarship for Iranian Students, 2023–2024

REFERENCES

References available upon request.