

# SHARARE NOROUZI

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## WORK EXPERIENCE

### Software Engineering Intern

May – Aug 2023

Qorvo

Greensboro, NC

- **Containerizing** build processes for advanced test development team in Windows environment, designing and automating the build using **Docker** and **GitLab CI/CD** pipelines and customized built environments.
- Determined feasibility of proposed pipeline designs
- Developing Qorvo internal fleet management system using **C#** in **.NET** framework and **Windows Presentation Foundation** and **MVVM** pattern

### Software Engineer

Jul 2020 – July 2021

Tapsi [Tapsi.ir Iranian Ride Sharing App]

Tehran, Iran

- **Designed** and **developed data pipelines** for machine learning modules using **Airflow**, **Kafka**, **Redis**, **PySpark**
- **Identified** issues, **redesigned** and **implemented** in-house Point of Interest Map Search Service utilizing **Elasticsearch**, **Python**, **OpenStreetMap** resulted in **improvement** of user search **hit-rate** from 40% up to 70%
- **Designed**, **implemented** new services and **developed**, **refactored**, and **maintained** map data-driven services and libraries based in **Python** using **MongoDB**, **Redis**, **Docker** utilizing **Software development best practices** and **design patterns** and **Microservice** Architecture
- Collaborated with *data science* and *artificial intelligence* chapters in ETA service and Search service projects to **sanity-check** models and results using **Tableau**, **Grafana**, and **Prometheus**
- **Risk Management** and **monitoring** by developing **unittest** and **integration test** increasing refactored services coverage up to **80%**. Developed service loggers and **Grafana Dashboards**
- **Mentored** Co-op students and planned and held **knowledge-sharing** sessions

## EDUCATION

### University of North Carolina at Charlotte

Dec 2023

Master of Science in Computer Science

Charlotte, NC

Concentration: Human Computer Interaction - Dual Degree with MS in Architecture, Design Computation Concentration

*Thesis[in progress]*: Sequential Action Recommender for 3D-Model Design Software

### University of Tehran

Aug 2020

Bachelor of Science in Architecture and Computer Engineering

Tehran, Iran

### Relavant Course Works

Machine Learning, Visual Analytics, Recommender Systems, Database Systems, Software Systems Design, Network-Based Applications, Data Structures and Algorithms, Operating Systems, Advanced Programming

## SKILLS

**Data Engineering and Tools:** ETL/ELT, Apache Spark, Airflow, Kafka, Azure Databricks

**Languages:** Python [Expert], Javascript, C/C++ and C#

**Frameworks:** Flask, NodeJS|ExpressJS

**DevOps and CI/CD:** Docker, GitLab CI/CD

**Databases:** MongoDB, MySQL, SQLite, Cassandra

**ML and Data Manipulation Libraries:** PyTorch, TensorFlow-Keras, Pandas, NumPy, SciKit-Learn

**Foundational Concepts:** Design Patterns, Microservice Architecture, Distributed Systems, Containerized Architecture, Linear Regression, Neural Networks, Deep Learning Models, Recommender System Models, Statistical Inference, Data Collection, Manipulation, Pre-processing, Decomposition

## PROJECTS

### Graduate Research Assistantship Project| AMPS | Python, Flask, RaspberryPi, HTML/CSS

- Refactored legacy code, designed and developed data collection modules for various sensors using Flask, MongoDB, and Adafruit
- Data cleaning and analysis, developing a predictive ML model for automated actuator system

### Trading Web App [Network-Based Applications Course Project] | NodeJS|ExpressJS, HTML/CSS, MongoDB

- Design and Implementation of Trading Web Application on top of Express JS

### Extending XV6 Operating System Kernel | Operating Systems Lab Group Project, C/C++, Unix

- XV6 is an educational Operating System developed by MIT. **Extended** and added **features**, including different **locking mechanisms**, new **scheduling algorithms**, and **shared memory capability**. to this **kernel**. Also in OS course projects operating system related concepts like **pipng** and **multi-threading**