

# Hamza Sallam

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## Education

**Istanbul Bilgi Univesity**, BS in Computer Engineering 2020 – 2024

- GPA: 3.67/4.0 (Transcript)

## Experience

**Software Engineering Intern**, ELMAS – Istanbul, Turkey June 2023 – July 2023

- Implemented UML and ER diagrams using Visio to make a use-case diagram for a coupon redemption platform.
- Optimized address records database (3 million+ records) in MySQL.
- Conducted web scraping to extract relevant data regarding addresses in Istanbul using BeautifulSoup.

**Application Development intern**, ISEC – Istanbul, Turkey Sep 2022 – Oct 2022

- Contributed to Developing Angular applications for client use.
- enhanced functionality and efficiency based on user feedback.

## Projects

**Classification of Degree of Freshness and Healthiness of Fruits and Vegetables using Computer Vision** [GitHub Repo](#)

- Implemented a deep learning model using VGG16 CNN using a large image dataset of 60k images with 94.58% accuracy
- Extended the project to detect diseases on tomato leaves, achieving 96.04% accuracy using EfficientNet-B0 on a subset of the PlantVillage dataset with 18k images
- Tools Used: Python, Tensorflow, Keras, OpenCV, CNN

**REST Service using Java and Quarkus Framework** [GitHub Repo](#)

- Implemented a RESTful API for a simple Product Management System where Products can be created, read, updated, and deleted.
- Used PostgreSQL for Persistence and Docker for containerization
- Tools Used: Java, XML, Quarkus, maven, Docker

**Smart door lock with face recognition** [GitHub Repo](#)

- Developed a smart door lock system using face recognition technology
- Tools Used: Raspberry pi, Python, openCV

**ML regression model for salary prediction** [GitHub Repo](#)

- Built a machine learning regression model to predict salaries based on various features.
- Tools Used: Python, Numpy, Pandas, seaborn, scikit-learn

**NLP machine translation model** [GitHub Repo](#)

- An example-based machine translation model that translates sentences from Turkish English and Turkish-Azerbaijani based on a huge corpus
- Tools Used: Python, Numpy, NLTK, scikit-learn

**Android application for university form** [GitHub Repo](#)

- Android application developed in Android Studio using Java for the university to fill in students' information and save it in a database
- Tools Used: Android Studio, Java, XML, SQL, MongoDB

## NIM Game

[GitHub Repo](#)

- C++ NIM game that uses logic and dynamic programming.
- Tools Used: C++

## Newspaper Database

[GitHub Repo](#)

- A functional newspaper database called 'Istanbul Post' implemented in python with pyMySQL plugin.
- Tools Used: Python, pyMySQL

## Additional Experience And Awards

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**Tutor (2021-2023):** Tutored peers in various subjects to help them prepare for exams

**QGIS python scripts developer(2024):** Wrote Python scripts to build automated workflows for spatial analysis and Geomatics development in QGIS desktop software.

**Best Senior Design Project:** Awarded best senior design project out of 150 students

**High Honor Student Award:** Awarded High Honors Certificate for my high GPA and being 2nd on class

## Technologies

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**Languages:** Python, R, C++, C, Java, SQL, XML, JavaScript, HTML, CSS, Latex

**Software:** Docker, Maven, Jupyter, IntelliJ, Eclipse, VScode, QGIS, ArcGIS, Android Studio, MySQL, PostgreSQL, R Studio, GIT, Excel, MS Access, Linux

**Hardware:** Raspberry PI, Arduino

**Frameworks and libraries:** Quarkus, Hibernate, Angular, Flask, REST API, Tensorflow, Keras, OpenCV, Pillow, Scipy, Numpy, PyQGIS, Pandas, Matplot, NLTK

## Interests

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ML & DL | GenAI | Software Development | Data Science | Web Development | GIS | GeoAI | Big Data