Ibrahim Eren Tilla

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EDUCATION

- **Bilkent University** — Ankara, Turkey
  Bachelor's Degree in Computer Engineering: Top %25 of class — *August 2017 – June 2021*

EXPERIENCE

- **Trendyol Group** — Istanbul, Turkey
  Associate Software Developer — *June 2021 – Present*
  - Designed and implemented a quality assessment microservice using **Spring, React, and Couchbase**. It is **used by 3500+** customer service agents **every month**.
  - Contributed to the new notification center project **increasing the Kafka throughput 4 times.**
  - Constructed a new gateway project, creating RESTful APIs using **Kotlin**.
  - Currently supporting the Trendyol infrastructure which has **15+ million visitors per day**.

- **Vadi Enterprise Information Systems** — Istanbul, Turkey
  Software Engineer Intern — *July 2020 – October 2020*
  - Implemented a web-based application that ingests and analyzes the data from various gas sensors over Istanbul using IoT. **Used AWS IoT Core, IoT Analytics, and DynamoDB.**
  - Established and fine-tuned communication through UART protocol over STM32 MCUs.
  - The application is currently being **used by 7 district municipalities** in Istanbul.

- **Turkish Airlines** — Istanbul, Turkey
  Software Engineer Intern — *July 2019 – September 2019*
  - Designed, built, and maintained a user agreement program which is **used by 200+ people** in the company on a monthly basis.
  - Used **Python** for the structure and connected the system to the **MS SQL** database to store the daily field data of arriving and departing planes.

PROJECTS

- **The Third Eye**
  - Implemented a social distancing and face mask detection program in **Python**, using **OpenCV and YOLOv4** libraries.
  - Trained the face mask detection algorithm using a dataset from Kaggle, securing an **average precision of 0.88**.
  - Created **analysis & design** reports, concentrating on the **application lifecycle management**, project reports can be examined on project website.

- **CodeGiant**
  - A web-application of a coding practice & interview system (e.g., HackerRank, LeetCode).
  - Worked on the **back-end** of the website and created **RESTful APIs** using **Node.js** and **Express.js**.
  - An integrated system that can support **thousands of users**, code be found on GitHub.

- **Crossword Solver**
  - An open-source **ML program** to solve The Mini Crossword from NYTimes.
  - Downloads the clues and solves them through heuristically searching online dictionaries, code can be found on GitHub.

PROGRAMMING SKILLS

- **Languages:** Java, Javascript, C++, HTML5, CSS, Python, Go

- **Tools/Technologies:** Git, Spring, Kafka, Couchbase, Amazon Web Services, NodeJS, ExpressJS, React

ACHIEVEMENTS

- Placed **984th** on the national admission exam in Turkey where roughly **1.2 million people** attend, ranking within the **top 0.08% percent** of contestants.