Curriculum vitae

Personal data

Name: Hamza T.

Technical Knowledge and Skills

Python, Django

Software web developer who has around 5 years of experience worked with a lot of stacks which Python/Django is the major. Hamza is hard worker and team player who is proficient in an array of web development tools.

Education

September 2012 — January 2018

Turkey
Bachelor's degree in Computer Engineering, Istanbul Technical University

Work experience

June 2021 - December 2021

Informational technologies and services, Germany
Senior Software Engineer

Stack:

- Python
- Django
- Celery

Responsibilities:

- Preparing endpoints for dashboard
- Developing of admin page for creating dynamic datasets

March 2019 -
June 2021

Internet technologies, Turkey
Big Data Engineer - Team Lead

Stack:

- AWS EMR
- Airflow
- AWS Kinesis
- AWS Lambda
- AWS S3
- AWS EB
- AWS EKS (kubernetes)
- AWS Elasticache
- Akka
- Scala
- Node.js
- Python
- Elasticsearch
- Apache Spark

Responsibilities:

- Developing components for search API
- Leading the team
- Maintaining the apache spark jobs
- Working closely with product manager to distribute tasks to developers

October 2017 -
March 2019

Telecommunications, Turkey
Software - Data Engineer

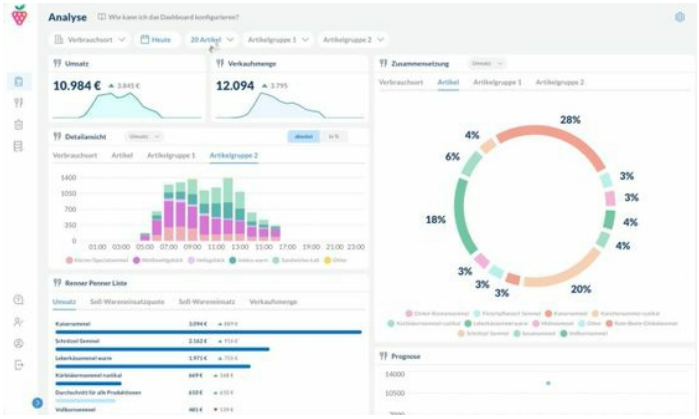
Stack:

- Spark
- Node.js
- Flask
- Django

Responsibilities:

- Web Services
- Recommendation Engine
- ETL Processes
- Standalone Cluster Management

Portfolio

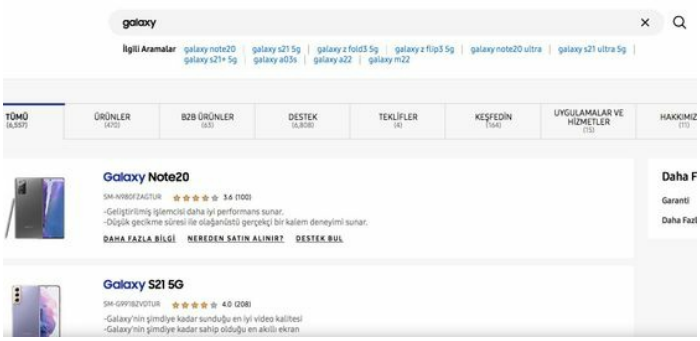


API Development/ Food

June 2021 - December 2021

I was a backend developer and I was responsible for creating celery jobs, maintaining API endpoints. The team size was 5 people, 3 of them were backend developers, 1 frontend developer and 1 machine learning engineer. I worked on the data processing and dataset preparation side mostly.
The dashboard is created to make analyses about food production, forecasting, waste information along with their insights. Celery jobs are created to prepare a dataset and enrich it with additional information like weather, holidays etc.

Technologies used:
Django



On Site Search API/ E-commerce (SAAS)

March 2019 - June 2021

I was responsible for maintaining existing features (APIs, jobs, queues etc.), helping to create a roadmap, developing and planning the roadmap items, make regular meetings with team members. The team consisted of 4 developers, 1 tester, 1 product manager and I was the tech lead of the team.
Search result pages are very important for e-commerce websites. Most of the users tend to buy after they make a search. So the quality of the result page is very important and the user needs to see the most relevant results. Relevant products do not just depend on string matches but also depend on user clicks and purchases. Classical search engines are based on tf-idf (term frequency) and sometimes it fails on keywords that are not included in the product information. So tf-idf needs to be combined with the probabilistic model.
The project consists of 3 main parts: data collection, API's and data processing jobs. Data collections consist of combinations of different queues. Each queue has different purposes like data validation, death letter, product update etc. After product information changes on the website, the search engine database should be updated as soon as possible with current information. API consists of the main search API which prepares results and microservices that help the main API. Jobs are responsible for processing raw data, preparing machine learning models and preparing insights about data.
Main search API is built with capabilities of load balancing, auto-scaling, machine learning models are created and models are served under microservices. Elasticsearch and Mysql are used as databases.

Technologies used:
Python, Node.js