

# Emre Dogan

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## EDUCATION

### Bilkent University

MSc IN COMPUTER SCIENCE

Oct 2020 | Ankara, Turkey

GPA: 3.95 / 4.0

### Middle East Technical University

BSc IN ELECTRICAL AND ELECTRONICS

ENGINEERING

Jun 2018 | Ankara, Turkey

GPA: 3.09 / 4.0

## COURSEWORK

### Graduate

Algorithms

Machine Learning

Deep Learning

Information Retrieval

Natural Language Processing

Big Data Analytics

Application Lifecycle Management

### Undergraduate

Data Structures

Operating Systems

Data Mining

Digital Signal Processing

## SKILLS

### Backend:

Django • FastAPI • PostgreSQL

### Infrastructure:

Docker • k8s • Terraform

### Data:

Pandas • Spark • Neo4j

### Familiar:

Scala • C • C++ • JavaScript

## HONORS & AWARDS

2022 | Ankara, Turkey:

Best Thesis Award by IEEE Computer Society Turkey Chapter

2019 | Recife, Brazil:

Best Paper Award in ESEM 2019

2019 | Termoli, Italy:

Full Tuition Scholarship for SIESTA 2019

2018 | Ankara, Turkey:

Huawei Graduate Fellowship

2014:

Ranked 270th over 1.4 million students in the National University Entrance Exam

## EXPERIENCE

### Delivery Hero | SOFTWARE ENGINEER

Apr 2022 - Present

- Working as a backend engineer.
- Building recommendations API gateway to hook multiple recommendations strategies for the consumer teams.
- Maintaining and serving many ML models in a monorepo structure.
- Created some metric based alerts and monitors on Datadog.
- Controlling many infra resources by using Terraform.
- **Tech stack:** FastAPI, protobuf, GCP, Terraform, Docker, K8s

### Plentific | SOFTWARE ENGINEER

Nov 2020 - Apr 2022

- Worked as a backend engineer.
- Developed and designed RESTful microservices by using Django.
- Integrated Elasticsearch to speed up the search of a 1M+ table. Dropped the related endpoint P99 latency from 700 ms to below 300 ms.
- Implemented a payment system by integrating Stripe.
- Optimized Dockerfiles for the existing Django microservices to shorten the deployment time.
- **Tech stack:** Django, PostgreSQL, Docker, K8s

### BILSEN Research Lab | RESEARCH ASSISTANT

Oct 2018 - Oct 2020

- Worked with with **Asst. Prof. Eray Tuzun** and **Prof. Altay Guvenir**.
- Investigated the bad practices followed by developers during the software development lifecycle. Find **my thesis** [here](#).
- Supervised and assessed the lab activity of an introduction level Python course.

### Aselsan | SOFTWARE ENGINEER

Apr 2018 - Oct 2018

- Worked on the embedded systems communication protocols.

## PROJECTS

### AUTOMATED SOFTWARE BUG LOCALIZATION | [SOURCE CODE](#)

- Predicting the buggy source file(s) from the bug reports by combining machine learning and information retrieval.
- Textual similarity between the bug reports and source code is extracted by information retrieval methods and used as input features to deep neural networks.

### MINI AUTONOMOUS RACE CAR | CLOSED SOURCE

- Attended to the Mini Autonomous Race Car Competition organized in Turkey.
- Used Convolutional (CNN) and Recurrent (RNN) Neural Network architectures trained by camera and LIDAR data.

## PUBLICATIONS

- [1] H. A. Çetin, E. Dogan, and E. Tüzün. A review of code reviewer recommendation studies: Challenges and future directions. *Science of Computer Programming*, 2021.
- [2] E. Dogan and E. Tüzün. Towards a taxonomy of code review smells. *Information and Software Technology*, 2022.
- [3] E. Dogan, E. Tüzün, K. A. Tecimer, and H. A. Guvenir. Investigating the validity of ground truth in code reviewer recommendation studies. In *2019 ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM)*. IEEE, 2019.