

# Muhammed Can Küçükaslan

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**GitHub** <https://github.com/kucukaslan>



## Education

2019 – Jan. 2024 **B.S. in Computer Engineering, Bilkent University**  
Bilkent University, Faculty of Engineering, Ankara, Turkey.  
CGPA 3.66/4.00 (Comprehensive Scholarship)

2019 – Jan. 2024 **BS. in Mathematics (Second Major), Bilkent University**  
Bilkent University, Faculty of Science, Ankara, Turkey.  
CGPA 3.65/4.00

## Work Experience

Jan. 2024 - **Backend Engineer Java, [Getir](#)**

- Maintenance (new feature implementations, bug fixes, dependency and language version migrations) for microservices written in Java/Spring, and NodeJS.
- Writing backend services to model various versions of [vehicle routing problems](#) (VRP) to efficiently manage delivery operations, using OR-Tools and Python.
- Design and implementation of courier rewarding (& gamification) system in Go (WIP).
- Used New Relic and MongoDB Query Insights to track & investigate bugs, anomalies and performance bottlenecks.

July 2023 - Nov. 2023 **Backend Engineering Intern (& Part Time) , [OTO Global](#)**

Backend development using Java & Spring on Google Cloud Run (GCR) & Compute Engine. I gained experience in MySQL and Redis. I learned Kafka and Google Pub/Sub. I've also used Logging and GCR Metrics to track anomalies and bugs.

June 2022 - Sep. 2022 **Big Data Platform Engineering Intern, [Peak Games](#)**

I worked on the development of [s5cmd](#) written in Go. [s5cmd](#) is a command line application used for cloud storage operations, particularly for AWS S3.

- Implement extensive shell autocompletion for zsh, bash and pwsh [#500 · \[peak/s5cmd\]\(#\) \(github.com\)](#)
- Implement versioning support for S3 compatible file systems [#475 · \[peak/s5cmd\]\(#\) \(github.com\)](#)
- Refactor sync command to handle sync of directories

with millions of files [#483 · peak/s5cmd \(github.com\)](#)

- Identified and fixed a subtle path manipulation bug [#456 · peak/s5cmd \(github.com\)](#)

and more [Pull requests · peak/s5cmd \(github.com\)](#).

I also contributed to some internal web apps written in Python with Jinja.

June 2021 - Aug. 2021

**Software Engineering Intern, Beytepe Bilişim Ltd. şti.**

Android Mobile App development with Java, Database design and implementation using T-SQL and MSMS, backend development using PHP on AWS EC2.

## Projects

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### **Todo:**

*todo* is a to do list application for command line

It is a simple and lightweight to do list application written in Go. It has exactly the main features. It is hosted at <https://github.com/Kucukaslan/todo>  
It uses *GitHub Actions* and *GoReleaser* for CI/CD.

### **PoCSequentiality**

A proof of concept to take advantage of sequential writes over random writes for large file downloads from S3-compatible filesystems.  
hosted at [github.com/kucukaslan/PoCSequentiality](https://github.com/kucukaslan/PoCSequentiality)

## Skills

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Languages

English (Academic/Professional Proficiency)

Turkish (Native)

Programming languages

Go

Java (Web development with Spring, and Android)

Python (Familiar with ortools, numpy, pandas, FastApi)

PHP

C/C++

SQL

Various development tools and environments

Git (mostly via GitHub, BitBucket and GitKraken)

MySQL/MariaDB, SQL Express

MongoDB

Redis

Apache Kafka, Google Pub/Sub

Docker

AWS (EC2/S3), Google Cloud (Run, Storage)

## Other Information

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### Achievements

- Bilkent University Comprehensive **Scholarship** Student (includes *100% tuition waiver* and stipends), 2019-2024.
- [TÜBİTAK 2205](#) - Undergraduate Scholarship Program, 2020-2024
- Ranked **568th** in Turkish National University Entrance Exam (“YKS”) among over **2 million candidates**, 2019 in Math & Science field (“Sayısal”, lit. Quantitative).
- Ranked **123rd** in YKS among over **2 million candidates**, 2020 in Turkish & Social Sciences field (“Sözel”, lit. Verbal).
- Ranked **420th** in YKS among over **2 million candidates**, 2020 in Turkish & Math field (“Eşit Ağırlık”, lit. Equal Weight).
- Ranked **475th** in YKS among over **100,000 candidates**, 2020 in Foreign Language field.
- Bilkent University *High Honor* Certificates in **Computer Engineering**, 2019-24 (7 times)
- Bilkent University *Honor* Certificates in **Computer Engineering**, 2019-24 (twice).
- Bilkent University *High Honor* Certificates in **Mathematics**, 2019-24 (6 times)
- Bilkent University *Honor* Certificate in **Mathematics**, 2020.

### Certificates

- **Go: The Complete Developer's Guide (Golang)** by *Stephen Grider*  
Certificate no: UC-c48f8569-b251-45f8-a057-3d491de174ca