

# Muhammed Can Küçükaslan

## Backend Software Engineer

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**GitHub** <https://github.com/kucukaslan> **Website** <https://kucukaslan.com.tr/>  
**LinkedIn** <https://linkedin.com/in/kucukaslan/>

### Education

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- 2019 – 2024 **Bilkent University**, B.S. in **Computer Engineering**, **3.66/4.00**  
Bilkent University, Faculty of Engineering, Ankara, Turkey.
- Graduated with *Magna Cum Laude* and ranked in *top 10%*.
  - Comprehensive Scholarship (100% Tuition Waiver)
- 2019 – 2024 **Bilkent University**, B.S. in **Mathematics** (double major), **3.65/4.00**
- Graduated with *Magna Cum Laude*.

### Work Experience

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- Feb. 2025 - **Getir Turkish Decacorn**  
now **Backend Engineer II (Mid)**
- Led IoT integration with device specific communication protocols for GetirWater car tracking system that consists of highly scalable and performant **Java** and **Go microservices**.
  - Deployment of new infrastructure (Kafka, MongoDB, Kubernetes, AWS EC2) with appropriate ACL settings using Terraform.
  - Prepared company-wide tutorials on MongoDB upgrades for NodeJS projects, improving cross-team knowledge sharing.
- Jan. 2024 - **Backend Engineer I - Java (Junior)**  
Jan. 2025  
(1 year)
- Maintenance (new feature implementations, bug fixes, dependency and language version migrations) for *RESTful microservices* written in **Java/Spring**.
  - Used *JUnit*, *WireMock*, *Embedded Redis*, *H2 database*, *data faker* and more for testing.
  - Used *Shedlock* for distributed (cron)job scheduling.
  - Used *Apache Kafka*, *Redis*, *MongoDB*, **AWS Lambda**, *Docker*, *Kubernetes*, *Bitbucket Pipelines*.
  - Design and implementation of courier rewarding (& gamification) service in **Go** with **Go-kit** with RESTful microservice architecture using *Apache Kafka* and *Flink*.
  - Optimized, in a joint effort, *MongoDB* usage to dramatically improve certain query performances, database migrations/consolidations, and **reduce monthly database costs** by \$2000+.
- July 2023 - **OTO Global (Remote) Backend Engineering Intern & Part Time**  
Nov. 2023  
(5 months)
- Developed backend systems using **Java & Spring**, deployed on Google Cloud Run (GCR) & Compute Engine.
  - **Dockerized** Java microservices using *Jib*.
  - Gained experience with *MySQL* and *Redis*.
  - Acquired foundational knowledge of Google *Pub/Sub*.
  - Utilized *Logging* and *GCR Metrics* to identify and resolve anomalies and bugs.

June 2022 - **Peak Games (Turkish Unicorn) Big Data Platform Engineering** Intern

Sep. 2022 (4 months) 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 under limited RAM [#483 · peak/s5cmd \(github.com\)](#)
  - Identified and fixed a subtle path manipulation bug [#456](#)
- and more at [Pull requests · peak/s5cmd \(github.com\)](#).

## Projects

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**PoCSequentiality** A *Proof of Concept* to take advantage of sequential writes over random writes for *large file downloads* from **AWS S3-compatible file systems** written in **Go**.  
Hosted at [github.com/kucukaslan/PoCSequentiality](https://github.com/kucukaslan/PoCSequentiality)

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

## Skills

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Languages	English (Academic/Professional Proficiency) Turkish (Native)
Programming languages	<b>Go</b> (Goroutine / channel patterns, Go-kit, urfave/cli) Java (Spring, OOP design patterns) Python (Familiar with ortools, numpy, pandas, FastApi) C/C++, PHP, SQL, NoSQL (MongoQL, Redis)
Various development tools	Git (GitHub, BitBucket and GitKraken) and MariaDB, <b>PostgreSQL</b> , SQL Express, MongoDB
environments	CSV, JSON, Protocol Buffers, Avro Apache <b>Kafka</b> , Google Pub/Sub <b>Docker, Kubernetes</b> <b>CI/CD</b> (GitHub Actions, BitBucket) pipelines AWS (EC2/S3), Google Cloud (Run, Storage) [GCP]

## Other Information

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### Achievements & Rewards

- Bilkent University Comprehensive **Scholarship** Student (includes *100% tuition waiver* and stipends), 2019-2024.
- Ranked **568th** in “YKS” among over **2 million candidates**, in “Sayısal” (lit. Quantitative), **123rd** in “Sözel” (lit. Verbal), **475th** in English.
- Bilkent University *High Honor* Certificates in **Computer Eng.** (7x), in **Mathematics** (6x).
- Bilkent University *Honor* Certificates in **Computer Eng.** (2x), in **Mathematics** (once).

### Certificates

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