

# HILMI CIHAN YILDIRIM

Senior Software Engineer | .NET, Cloud, Microservices | Udemy Instructor | Azure, EFCore, PostgreSQL

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## SUMMARY

Senior Software Engineer with 5+ years of experience in **backend development**, specializing in **.NET, cloud computing, and microservices**. Expertise in **Entity Framework, PostgreSQL, Azure, and ASP.NET Core**. On the side, I share my knowledge as a Udemy instructor, impacting **30,000+ students globally** and maintaining a **4.6/5 rating**. Eager to apply my **technical expertise and leadership skills** in driving innovative solutions.

## EXPERIENCE

### ARC Europe

#### Back End Developer

📅 Jan 2024 - Present

📍 Belgium (Contract)

- Enhanced system performance by optimizing EF Core queries and implementing caching strategies, resulting in **2-3x faster endpoint response times** and significant overall system performance improvements.
- Automated previously manual tasks through the implementation of background jobs using Hangfire, streamlining operations and improving task execution efficiency.
- Collaborated with Agile teams to deliver key features in 3-week sprints, contributing to seamless product launches.

### Udemy

#### Instructor - Side Project

📅 Jan 2023 - Present

📍 Remote

- Reached and impacted **30,000+ students globally**, maintaining a **4.6/5 instructor rating**.
- Created **40+ hours of educational content** on topics such as GitHub Actions, Design Patterns, and EF Core.
- Effectively **simplified complex programming concepts** in C#, Python, and JavaScript, making them accessible to learners of all levels.

### SMG (Service Management Group)

#### Software Engineer

📅 Aug 2022 - Jan 2024

📍 USA (Remote, Contractor)

- Led the development of **10+ microservices** using .NET Core 6+, processing **600M+ transactions daily** and improving data processing speed by **40%**.
- Cut deployment times by **50%** by automating CI/CD pipelines with GitHub Actions and Azure DevOps, streamlining release cycles.
- Mentored and onboarded **two mid-level engineers**, fostering team growth and boosting overall productivity.

### StartupHeroes (Gopuff)

#### Full Stack Mobile Developer

📅 Aug 2021 - Aug 2022

📍 Istanbul, Turkey

- Developed **backend services** using Node.js and mobile applications with Flutter, increasing user engagement by **25%**.
- Integrated **push notifications and payment services**, enhancing user experience and improving transaction success rates by **15%**.

## EDUCATION

### Middle East Technical University

#### Bachelor of Science in Computer Engineering

📅 2016 - 2021

📍 Ankara, Turkey

- Graduated with honors with a **CGPA of 8+ out of 10**.
- Completed coursework in **Data Structures, Artificial Intelligence, Computer Organizations, Dynamic Programming and Algorithms, and Image Processing**.

## SKILLS

.NET Core

CI/CD

C#

ASP.NET Core

Python

Entity Framework

JavaScript

PostgreSQL

Flutter

Redis

Azure

RabbitMQ

Microservices

Agile

GitHub Actions

REST APIs

## ACHIEVEMENTS

- Achieved **4th place** in the national senior project competition.
- Awarded a **scholarship from Deloitte**.
- Ranked in the **top 0.01%** of the National University Entrance Exam out of over 2 million students.

## PROJECTS

- Developed a **Gym Workout Planner mobile app**, utilizing Flutter for the front-end and Node.js-Express for the back-end. Available on the [Google Play Store](#) and [Apple App Store](#).
- Led a **Senior Project** to develop a web and mobile app for **mask detection from public cameras**. Utilized Flutter (front-end), Flask (back-end), and the **Deep Symmetry-based Dense Feature Descriptor (DSDF)** for AI. The project was **supported by ASELSAN**, earning recognition and an award in a national competition.

- **Recognized with a 110% salary increase** within 10 months due to high-impact contributions to the project's success.

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## Keepnet Labs

### Back End Developer

📅 Nov 2020 - Aug 2021

📍 London, UK (Remote)

- **Developed high-performance backend systems** using .NET Core 3.1, achieving a **35% improvement in API response times**.
- **Integrated advanced security solutions** (IBM X-Force, Fortinet), significantly enhancing system grow and contributing to the acquisition of **major banking clients**.

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## HAVELSAN

### Software Engineer Intern

📅 Jul 2020 - Aug 2020

📍 Ankara, Turkey

- **Developed bounding box detection algorithms** in C++ for Lidar data, significantly **enhancing object detection accuracy** in real-time applications.
- Collaborated with senior engineers to **integrate Lidar-based object detection into defense systems**, contributing to the development of cutting-edge technology for military applications.
- Utilized **Point Cloud Library (PCL)** to handle 3D data, ensuring efficient and accurate processing of spatial information.

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## METU

### Undergraduate Researcher

📅 Nov 2019 - Jun 2020

📍 Ankara, Turkey

- **Researched and developed AI behavior trees**, extending the probabilistic model to improve decision-making in AI systems for complex environments.
- **Published a research article** on the extended AI behavior tree model, contributing to advancements in adaptive AI algorithms and intelligent systems.
- Collaborated with a multidisciplinary team to **implement and test AI models** in simulation environments, validating improvements in dynamic decision-making processes.
- Utilized **machine learning techniques** to enhance the adaptability and efficiency of behavior trees in varying scenarios, paving the way for more robust AI solutions.