# Halil İbrahim **Ceylan**

COMPUTER ENGINEER ·

*Antwerp, Belgium*

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*"I am a dynamic and driven engineer who thrives on challenges and is dedicated to pushing the boundaries of what is possible."*

## Summary

As a highly skilled and experienced engineer, I am passionate about coding and problem-solving. I have worked on a variety of projects in different languages and fields such as gaming, cybersecurity, operating systems, and Raspberry Pi. I am currently interning at a laboratory in Antwerp, where I am working on mutation testing of Simulink models. With my advanced technical skills and ability to quickly adapt and learn new technologies, I am confident in my ability to deliver top-quality results and guide my team members in complex projects.

## Work Experience

### University Of Antwerp, AnSyMo, LoRe Labs
*Antwerp, Belgium*

STUDENT ENGINEER · *Nov 2022 - Present*

- Conducting **mutation testing on Simulink models** using Python.
- Developing a **Simulink plugin** for automatic mutation testing.
- Collaborating with team members and researchers on experimental projects.
- Participating in workshops and seminars on software engineering and testing.
- Conducting research on new methods and technologies in the field of mutation testing.

### Neta Solutions
*Mugla, Turkey*

BLOCKCHAIN DEVELOPER · *Jan 2022 - Current*

- Participated in **pentesting** and security audits of smart contracts.
- Developed smart contracts using **Yul**, **Solidity**, and **Security Test**.
- Implemented **Proxy Contracts** to manage multiple ERC-20 and ERC-721 tokens.
- Created **NFT** (Non-Fungible Tokens) for gaming applications.
- Improved **random number generation** for fair and secure gaming.
- Collaborated with team members on design and implementation of blockchain solutions.
- Conducted research on new technologies and trends in the blockchain industry.

### Neta Solutions
*Mugla, Turkey*

BSC NODE OPERATOR · *Sept 2021 - Current*

- Operate and maintain **Binance Smart Chain (BSC)** node equipment and associated network infrastructure.
- Monitor and troubleshoot network performance issues and take appropriate corrective actions.
- Perform daily checks and preventative maintenance on BSC node equipment and network infrastructure.
- Coordinate with other teams and vendors for maintenance and upgrade activities.
- Ensure compliance with industry standards and regulations.
- Check and upgrade version of **GETH (Go Ethereum)** as needed.
- Write and develop special debug tracers in GETH and modify GETH as needed.

### Google Summer of Code Internship (Cloud Native Computing Platform )
*Remote*

STUDENT DEVELOPER · *May 2021 - Sept 2021*

- Contributed to the open source project "Buildpacks" within the Cloud Native Computing Foundation.
- Developed and completed **acceptance tests** for the project using **GoLang**.
- Made various **bug fixes** and improvements to the project.
- Participated in **weekly meetings** and contributed to **decision-making** within the project.

### Neta Solutions
*Mugla, Turkey*

SR. FULL STACK DEVELOPER · *March 2020 - Current*

- Developed a restaurant order management system using **AWS SAM** and **Terraform** in **Python**.
- Created a **Laravel** application and deployed it on **AWS EC2**, using **AWS Codepipeline** and **Gitlab CI/CD** for staging and automatic deployment.
- Developed **Flutter** and **Laravel** applications, using the **Provider** design pattern in the Flutter project and generating a **Laravel REST API** for front and mobile clients.
- Created an **OCPI (Open Charge Point Interface)** microservice application using **Python**, with **RabbitMQ** for microservice communication.
- Designed a **Gitlab CI/CD** pipeline for deployment of a **NuxtJS** project.

**Neta Solutions**                                                                                          *Mugla, Turkey*

Freelance Remote Sr. Full Stack Developer                                                   *July 2019 - March 2020*

- Developed and refactored a **Laravel marketplace app**.
- Created a **Flutter mobile app** for the marketplace.
- Actively used **AWS**, **Docker**, **Linux**, **Bash**, and **Plesk** for app deployment.

**Neta Solutions**                                                                                          *Mugla, Turkey*

Freelance Remote Jr. Full Stack Developer                                                    *Apr. 2019 - July 2019*

- Developed **Laravel** and **NuxtJS** projects.
- Created a customized e-commerce application using **Laravel**.

**DiyezMedia**                                                                                             *Gaziantep, Turkey*

Jr. Backend Developer                                                                                  *Oct. 2018 - Nov. 2018*

- Implemented a **queue system** for a **Laravel e-commerce project**.

**Ludevo**                                                                                                 *Gaziantep, Turkey*

Jr. Backend Developer                                                                                   *Oct. 2017, Jan. 2018*

- Developed a **CMS application** using **ASP.net**.

# **Hon**ors & Awards

## Domestic

| | | |
|---|---|---|
| 2020 | **1rd Place**, Developer Students Club Turkey DSC-FEST | *Turkey* |
| 2019 | **Finalist**, Siber Yıldız Capture the Flag | *Turkey* |
| 2019 | **3rd Place**, Hasan Kalyoncu University Global Game Jam19 | *Gaziantep, Turkey* |
| 2018 | **Finalist**, Hasan Kalyoncu University Gastrobilisim Hackathon | *Gaziantep, Turkey* |
| 2018 | **Finalist**, Hasan Kalyoncu University Global Game Jam 18 | *Gaziantep, Turkey* |
| 2018 | **1rd Place**, Hasan Kalyoncu University Unity Hackathon | *Gaziantep, Turkey* |
| 2018 | **Finalist**, ITU CEKIRDEK Big Bang | Start-up Challenge | *İstanbul, Turkey* |
| 2017 | **Finalist**, Hasan Kalyoncu University Smart Life Hackathon | *Gaziantep, Turkey* |

# **Pre**sentations

**DSC MSKU and IEEE CS MSKU's Github 101 event**                                      *Turkey*

Presenter for "Introduction to Github"                                                            *Dec 2020*

- Presented on the basic commands and usage of **Git**.
- Demonstrated the use of **Visual Studio Code's Git Extension**.
- Explained how to use **Github** for private team projects.
- Discussed **Pull Request** and **Fork** mechanisms.

**Mugla Sitki Kocman University's Green Campus event**                                *Turkey*

Presenter for "Carbon Footprint Project"                                                        *Sep 2020*

- Presented on potential applications for reducing carbon emissions on university campuses.
- Discussed potential applications of the **Carbon Footprint Project** for university faculties.

**Developer Students Club Turkey's DSCFEST event**                                      *Turkey*

Presenter for "DSC MSKU: Carbon Footprint Project"                                     *Sep 2020*

- Presented on the **Carbon Footprint Project**.
- Discussed the psychological effects of **mobile applications** on reducing carbon emissions.
- Outlined the **tech stack** used in the Carbon Footprint Project.
- Provided a live demonstration of the project.

**DSC MSKU and IEEE CS MSKU's Digital Weeks event**                                  *Turkey*

Presenter for "Flutter on DartPad"                                                               *Apr 2020*

- Developed a visual memory game with participants.
- Introduced the concepts of **Dart functions** and **variables**.
- Explained the use of **Flutter widgets** and state management.

**DSC MSKU and IEEE CS MSKU's Flutter Study Jam event**                          *Mugla, Turkey*

Presenter for "Flutter Hello World Workshop"                                              *Dec 2019*

- Introduced the **Flutter** framework for cross-platform applications.
- Developed a simple **Flutter** counter application with participants.
- Demonstrated the integration of **Material Design** with **Flutter**.

# Program Committees

| | | |
|---|---|---|
| 2020 | **Lead,** Developer Student Club Mugla Sitki Kocman University | *Mugla, Turkey* |
| 2019 | **Tech Lead,** Developer Student Club Mugla Sitki Kocman University | *Mugla, Turkey* |
| 2018 | **Lead,** IEEE Hasan Kalyoncu University Computer Society | *Gaziantep, Turkey* |

# Education

**MSKU(Mugla Sitki Kocman University)** — *Mugla, Turkey*

B.S. in Computer Engineering — *Sep. 2019 - June 2022*

- Started as a student in 2nd grade
- Graduated with a **3.5 GPA** and received the award for Outstanding Student
- Thesis topic: "**Mutation Testing on C++ Code generated based on Simulink models**"
- Invited to Antwerp University for further research on the topic of my thesis under the supervision of **Prof.Dr.Serge Demeyer** and **Onur Kılınç-ceker.**

**HKU(Hasan Kalyoncu University)** — *Gaziantep, Turkey*

B.S. in Computer Engineering — *Aug. 2017 - Sep. 2019*