

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 - Nov 2022

- 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 - Jan 2022

- 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 - Sept 2021

- 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

JR. BACKEND DEVELOPER

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

Gaziantep, Turkey

Oct. 2018 - Nov. 2018

Ludevo

JR. BACKEND DEVELOPER

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

Gaziantep, Turkey

Oct. 2017, Jan. 2018

Honors & Awards

DOMESTIC

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

Turkey

Turkey

Gaziantep, Turkey

Gaziantep, Turkey

Gaziantep, Turkey

Gaziantep, Turkey

İstanbul, Turkey

Gaziantep, Turkey

Presentations

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.

Program Committees

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

Mugla, Turkey

Mugla, Turkey

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 Kilinc-eker**.

HKU(Hasan Kalyoncu University)

Gaziantep, Turkey

B.S. IN COMPUTER ENGINEERING

Aug. 2017 - Sep. 2019