Halim Can Ocaklı

Junior Data Architect

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PROFILE

A senior computer engineering student and junior data warehouse engineer who strives to enhance himself in data engineering, machine learning, computer vision, and derivative fields. Additively, he improves himself on Sipring Boot and other Java technologies, to create WEB apps to become an excellent knowledgeable software engineer. He is well up on C, Python, C#, Java, Database Design, SQL, Data Structures, OOP concepts, and Algorithms. Also a backend engineering enthusiast, and a lifelong learner.

PROFESSIONAL EXPERIENCE

2023/02 – present
İstanbul, Türkiye

Junior Data Architect, *Halkbank*
SQL, T-SQL, Data modelling, Database Design, ETL, PowerDesigner.

Kocaeli, Türkiye

Junior Software Engineer, *Saykal Electronics*
After my compulsory summer internship, I started to work as a Junior Software Engineer at Saykal Elektronik company within the scope of "Candidate Engineering". I continued to develop applications under the WPF framework using C# and XAML languages. I also created a data parsing application using Python language and a radar interface using the PyQT framework. I had the opportunity to work on a user interface where I integrated CANFD and LIN protocols. I also designed a motor driver interface and completed the back-end development. The applications I developed and contributed to the development are as follows: "Seat Belt Endurance Test", "Canbus Data Analyser", "Accelerometer Data Parser with Python", "Radar GUI with PyQT5", "Gateway UI", "Contacts App"

2022/07 – 2022/08
Kocaeli, Türkiye

Software Engineering Intern, *Saykal Electronics*
During my compulsory summer internship, I learned OOP principles and desktop programming techniques. I improved my knowledge of C#, XAML and was introduced to the WPF graphical framework, so I had the opportunity to enhance my frontend skills along with the backend. In addition, I learned about serial communication, created a basic serial communication application with WPF, and developed a simple gateway frontend to learn XAML.

2022/04 – 2022/05
San Jose, USA

Embedded Software Engineering Intern, *Sixfab*
That was a voluntary internship in which I developed a communication system that includes Telit ME910C1-WW which is the LTE UE Category (Cat) M1/NB1 specified in the 3GPP Release (Rel) 13. Cat M1/NB1 device integrated with Raspberry Pi Pico. The system has bilateral communication that communicates with an IoT cloud platform.

VOLUNTARY EXPERIENCE

2022/07 – 2023/02
Karabük, Türkiye

Artificial Intelligence Researcher, *Dr. Caner Özcan*
At SimurgAI LAB, I voluntarily do research and development work, with a large staff of students, about data science, machine learning, and deep learning under the supervision of Associate Professor Doctor Caner Ozcan. This part-time employment is related to the lecture named "CPE312 Introduction to Machine Learning" which Caner Ozcan gives. The research team members are also responsible for being assistant students at the lecture mentioned above.

2022/02 – 2023/02	**Assistant Student,** *Dr. Caner Özcan*
Karabük, Türkiye	Assist students in computer laboratory sessions of *Programming Languages I, Programming Languages II, and Introduction to Machine Learning* lectures to make students well informed on algorithm development, C programming language, machine learning, and Python programming language that offered by Assoc. Prof. Dr. Caner Özcan.
2021/01 – 2022/07	**Artificial Intelligence Software Team Member,** *KGM Black Night UAV Team*
Karabük, Türkiye	I was a member of the unmanned aerial vehicle development team that is preparing for the Teknofest competition and worked in the computer vision systems and artificial intelligence development department of this team.

SKILLS

| C | Python | C# | OOP | SQL | Algorithm Analysis | Data Structures | PL/SQL |

| Linux | Embedded Software | Database Design | T-SQL | Machine Learning |

PROJECTS

2022/11 – 2022/12	**THY Stock Price Prediction**
	A machine learning project that provides buy-sell signals based on the change in stock values of Turkish Airlines between 2019 and 2022. In addition to the Decision Trees algorithm, economic forecasting algorithms were used in the project.
2022/06 – 2022/07	**Logistic Regression with Titanic Dataset**
	This project was produced to analyze the "Titanic - Machine Learning from Disaster" dataset and create a Logistic Regression model with Python.
2018 – Present	**C Programming Examples**
	Various C programming projects that I have been developing on several subjects since I started my university education.
2021/07 – 2021/08	**Data Structures Project**
	I created this project which is a student information management system using data structures in C programming language due to accomplish my data structure lecture assignment. The project includes various data structures implementing techniques such as linked list, stack, AVL trees, and BST trees.
2018 – Present	**Various Educational Projects**
	Lots of large and small projects about several topics such as data structures, algorithms, data science, machine learning etceteras. Also, programming language documents include quite a few codes with informative comments.

EDUCATION

| 2018 – present | **BSc. Computer Engineering,** *Karabuk University* |
| Karabük, Turkey | |

ORGANIZATIONS

Karabük, Turkey	**Google Developer Student Clubs,** *Core Team Member*
Karabük, Turkey	**Women Techmakers Karabük,** *Core Team Member*
Karabuk, Turkey	**Karabuk University BTK,** *Core Team and Organizing Committee Member*
Erzurum, Turkey	**TEMA,** *Team Member*
Web Based	**Çeyrek Mühendis,** *Editor and Writer*

REFERENCES

Hüseyin İlker Ocaklı, *Leader Engineer*, ASELSAN
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Özgür Saklanmaz, *Software Engineer*, Saykal Electronics
saklanmazozgur@gmail.com, +905448664458

İsa Avcı, *Assistant Professor*, Karabuk University
isaavci@karabuk.edu.tr

LANGUAGES

Turkish • English

CERTIFICATES

Professional C Programming
Udemy

Image Processing in Python
DataCamp

Python Data Science Toolbox (Part 1)
DataCamp

Data Engineering for Everyone
DataCamp

Oracle Database Design and Programming with SQL
I took it after accomplished the "Database Management" course at Karabük University

Joining Data with pandas
DataCamp

Data Structures in C
Udemy

Feature Engineering for Machine Learning in Python
DataCamp

Python Data Science Toolbox (Part 2)
DataCamp

Cloud Computing for Everyone
DataCamp

Circuit Analysis and Design with Proteus
Udemy

Introduction to Data Visualization with Matplotlib
DataCamp

Intermediate Python
DataCamp

Supervised Learning with scikit-learn
DataCamp

Machine Learning for Everyone
DataCamp

C# - Beginner to Advance Levels
Udemy

Arduino
Fourdot

Data Manipulation with pandas
DataCamp

Introduction to Python
DataCamp

Unsupervised Learning in Python
DataCamp

Software Develoopment in C/C++
Udemy

Algorithms and Programming in C#
Turkcell

Linear Classifiers in Python
DataCamp