



A highly motivated C++ Software Engineer with a strong academic foundation in computer engineering and hands-on experience in developing scalable and high-performance systems. Proficient in C, C++, Python, and modern software development practices, with expertise in Linux-based development, embedded systems, and algorithm optimization. Passionate about building robust software solutions for mission-critical applications.

TECHNICAL SKILLS

- Programming Languages: C, C++, Python, Java
- Software Development: Object-Oriented Programming (OOP), Multithreading, Design Patterns
- Embedded Systems: Linux Kernel Programming, Bash Scripting
- Database Management: SQL, PostgreSQL
- Development Tools: Git, Docker, Scrum
- Operating Systems: Linux (Ubuntu, Debian), Windows
- Machine Learning & AI: TensorFlow, Scikit-Learn

RELEVANT COURSEWORK

- Advanced Data Structures & Algorithms
- Object-Oriented Programming (OOP) in C++
- Operating Systems & Computer Architecture
- Software Engineering & Database Management
- Machine Learning & Artificial Intelligence
- Computer Vision & Image Processing

LANGUAGES

English (C1 level)
German (A2 level)

CONTACT INFO

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TUGAY KAPUCU

ACADEMIC HISTORY

ISTANBUL TECHNICAL UNIVERSITY

Bachelor of Science, Major in Management Engineering | Sep 2018 - Jun 2022 (Graduated-First Ranked)

GPA: 3.89 / 4.00

Bachelor of Science, Double Major in Computer Engineering | Sep 2019 - Jun 2023

GPA: 3.65 / 4.00

AMERICAN ROBERT COLLEGE OF ISTANBUL

High School Diploma | Sep 2012 - Jun 2017

GPA : 89.58 / 100

-Captain of Football Team

-Captain of Running Team

-Vice President of Permaculture Club

EXPERIENCE

SOFTWARE DEVELOPER

Siemens | January 2023 (Current Job)

- Developed and optimized software for HMI devices on Linux-based systems using C, C++, and Python.
- Designed and implemented high-performance algorithms to enhance scalability and efficiency in embedded systems.
- Worked closely with cross-functional teams to troubleshoot and resolve critical software and system performance issues.
- Integrated and maintained relational database components for efficient data storage and retrieval.
- Conducted performance analysis and optimizations, ensuring high system reliability.

MARKETING TECHNOLOGY & INFO-SEC INTERN(IT)

Procter & Gamble | January-October 2022

- Led initiatives to enhance customer engagement through data-driven personalization techniques in mobile and web applications.
- Optimized data workflows and database processes for a nationwide digital event, improving efficiency and scalability.

PRODUCTION PLANNING INTERNSHIP(ONLINE)

Eti | August 2020 (4 weeks)

- Observed production stages of machines manufactured at Eti Machinery which is used at Eti.

MARKETING INTERN

Arçelik Global A.Ş. | August 2021

- Completed a project for marketing strategies of The Kitchen that is a cooking experience center after the pandemic.

GRADUATION PROJECTS

- Customer segmentation using RFM(Recency -Frequency- Monetary value) analysis and CLV(Customer Lifetime Value) models in retailing
- Non-Playable Character Design with Artificial Intelligence for Role-Playing Games

UNIRC ASSISTANT

Robert College Alumni Association, Committee for University Students | Jun 2019

- Helped as assistant to the project that gathers underprivileged children from 7 regions of Turkey to Robert College campus to teach them various skills, make them experience different workshops