



AHMET BURAK ALBAYRAK

Phone: +905388201845
Email: burak_albayrak0@icloud.com
Website: <https://burrk-portfolio.web.app>
GitHub: burak-albayrak
LinkedIn: ahmet-burak-albayrak-8b5b44230

SUMMARY

I am a fourth-year Software Engineering student at Çankaya University with a strong interest in technology and problem-solving. Throughout my education, I have taken part in various projects that helped me improve both my technical and teamwork skills. I am a responsible and motivated individual who enjoys learning and adapting to new challenges. I am currently seeking a professional opportunity where I can apply my skills to real-world challenges and contribute to impactful software solutions.

WORK EXPERIENCE

Undergraduate Teaching Assistant, Çankaya University	Feb 2025 - Present
<ul style="list-style-type: none">Assisted faculty in teaching C and C++ programming courses at Çankaya University, with a focus on practical lab sessions and student guidance.Provided support in advanced C topics such as file handling, pointers, and data structures.Guided students through Object-Oriented Programming (OOP) concepts and data structures in C++.	
Software Engineer Intern, BOTAŞ	Jul 2025 - Jul 2025
<ul style="list-style-type: none">Led a 15-member intern team by organizing sub-groups, distributing tasks, creating timelines, providing regular progress reports, and mentoring peers throughout the project.Developed the iOS application using SwiftUI and contributed to backend development with Flask, enabling user authentication, document upload, and AI-powered Q&A functionality.	
Junior Backend Developer, mfatech	Jan 2025 - Jun 2025
<ul style="list-style-type: none">Contributed to the backend development of the “İstasyon” mobile application using Python and Flask.Integrated cloud-based services via AWS to support scalable and reliable backend infrastructure.Collaborated within an Agile development team, participating in sprint planning, daily stand-ups, and code reviews.	
Artificial Intelligence Intern, Büyük Savunma ve Yazılım Teknolojileri	Jul 2024 - Aug 2024
<ul style="list-style-type: none">Completed an AI internship focused on machine learning with TensorFlow, contributing to data-driven projects and environmental analysis using the CarbonMapper dataset.Supported model training and validation through critical data labeling and preprocessing tasks.<u>CarbonMapper</u>: https://huggingface.co/datasets/bsytechs/CarbonMapper	
Backend Developer Intern, Tesodev	Jul 2023 - Sep 2023
<ul style="list-style-type: none">Completed a backend development internship using C# and .NET, working with RESTful APIs, middleware architecture, and NoSQL databases like MongoDB.Applied backend concepts such as validation modules and the software development lifecycle through hands-on project experience.	

EDUCATION

Bachelor of Science in Software Engineering, Çankaya University	2020 - Present
<ul style="list-style-type: none">Built a strong foundation in software engineering principles, with a focus on database systems, backend development, and software quality.Participated in practical projects involving Flask, PostgreSQL, and React, gaining hands-on experience in full-stack development.Supported academic research and peer learning as an Undergraduate Teaching Assistant in C/C++ programming courses.GPA: 3.15 / 4.00	

PROJECTS

IT-ISQS Community Website - Full-Stack Developer & DevOps Feb 2025 - May 2025

Developed a web-based learning platform to promote awareness of international software quality standards (ISO/IEC 12207, 29110).

- Built the full-stack application using React.js (frontend) and Spring Boot (backend)
- Designed and integrated a relational database (MySQL) with SSL security
- Deployed services via Firebase (frontend) and Koyeb (backend), integrated AWS S3 for file storage
- Managed testing, API validation, and end-to-end deployment independently
- Actively participated in Agile workflows and remote collaboration using GitHub Projects

Key Skills: Java, JavaScript, React.js, Spring Boot, SQL, Git, RESTful APIs, Agile, AWS S3

Project Website: <https://it-isqs-cankaya.web.app>

Project Github: <https://github.com/burak-albayrak/IT-ISQS-Community-Website>

Scientific Metadata Extractor - Full-Stack Developer & DevOps May 2025 - May 2025

Developed a web application that extracts structured metadata from scientific PDFs using Google's Gemini AI model.

- Built with Flask (Python) for backend and React.js + Tailwind CSS for frontend
- Integrated Gemini API for natural language metadata extraction
- Implemented PDF parsing and batch file processing with export to Excel
- Designed a modern drag-and-drop UI for academic and research use
- Deployed frontend on Firebase Hosting

Key Skills: React.js, Python, Flask, NLP, Prompt Engineering, Tailwind CSS, Git

Project Website: <https://scientific-metadata-extractor.web.app>

Project Github: <https://github.com/burak-albayrak/scientific-metadata-extractor>

Unit Converter - Product Owner & iOS Developer Jul 2024 - Oct 2024

Developed a unit conversion app deployed on all major Apple platforms, offering a consistent and localized user experience.

- Built using SwiftUI with full support for iOS, iPadOS, watchOS, macOS, and visionOS
- Implemented MVVM architecture and integrated SwiftData for persistent conversion history
- Designed an intuitive and accessible interface with categorized converters and real-time results
- Supported custom units and multilingual localization (English & Turkish)
- Published on the App Store across five Apple platforms with 4000+ downloads

Key Skills: Swift, SwiftUI, SwiftData, MVVM, iOS/macOS Development, UX Design, Localization

Project Github: <https://github.com/burak-albayrak/UnitConverter>

App Store (iOS & watchOS): <https://apps.apple.com/tr/app/unit-converter-scientific/id6692634387>

App Store (iPadOS & visionOS): <https://apps.apple.com/tr/app/unit-converter-scientific/id6737483901>

App Store (macOS): <https://apps.apple.com/tr/app/unit-converter-for-desktop/id6737628683?mt=12>

CarbonMapper - AI Research Contributor Jul 2024 - Aug 2024

Contributed to the development of CarbonMapper, a machine learning dataset for detecting carbon emissions from high-resolution satellite imagery.

- Worked on data preprocessing, analysis, and model training to identify emission sources
- Applied AI techniques to quantify carbon output for environmental monitoring
- Project is publicly available on Hugging Face to support open research collaboration
- Aimed to advance carbon neutrality efforts through actionable insights

Key Skills: Python, TensorFlow, Machine Learning, Data Labeling, Data Preprocessing

Hugging Face: <https://huggingface.co/datasets/bsytechs/CarbonMapper>