

Efe Ates

Fresh graduated Biomedical & Computer Engineering Student

Status:	B.Sc. in Computer & Biomedical Engineering
Interests:	Edge AI, Application Development, Software Engineering, Hardware Programming, Embedded Software, AI/ML, On-Device LLMs
Contacts:	linkedin.com/in/efeates, github.com/EfeAtesh, efeates3300@gmail.com, +905312209935
Language:	Turkish (Native), English (TOEIC Total: 855/990 – CEFR B2)

Professional Summary

Engineering student at Ankara University with a double focus on Computer Science and Biomedical Engineering, combining knowledge of Artificial Intelligence and full-stack application development with strong software skills. Experienced in building Android applications with multiple apps published on Google Play. Currently developing an NFC-based potentiostat with an AI-powered voice assistant as part of a TÜBİTAK 2209-B industry-oriented undergraduate research project. Hands-on expertise in Java, C++, Kotlin, Python, and on-device AI/ML frameworks.

Professional Experience

12/2024 - 06/2026	R&D Software Developer (Working Student)	Sensitify
	– Leading the full development lifecycle of the Sensitify Go Android application – Developed a mobile monitoring solution for ECA and MCA series potentiostats to track electrochemical protocols – Implemented real-time data visualization and device communication between device and potentiostat – Training and fine-tuning on-device LLMs as a local chatbot for electrochemistry guidance and experiment automation commanded vocally or text based – Published Sensitify GO on Google Play Store (View on Google Play)	
03/2024 - 12/2024	Engineering Intern	Sensitify
	– Enhanced the UI of Sensitify Studio desktop application using C++ and the Qt framework – Designed and developed the company's official website, improving online presence and brand identity	
01/2024 - 02/2024	Engineering Intern	İbn-i Sina Hospital
	– Maintained, repaired, and calibrated medical devices across multiple hospital departments (mandatory Biomedical Engineering internship)	

Education

2023 - 2026	B.Sc. Minor in Computer Engineering	Ankara University
	– Software engineering, algorithms, data structures, OOP, database systems, deep learning, selected to Microsoft AI Innovators Summer School 2026 for learning Edge-AI and On-device AI technologies.	
2022 - 2026	B.Sc. in Biomedical Engineering	Ankara University
	– Biomedical instrumentation, electrochemistry, HCI usability studies, medical device technologies – ISO 13485:2016 Medical Devices QMS certification (Kiwa, Credential ID: TR-2025-0569)	

Projects

2024 – 2026	NFC Potentiostat — TÜBİTAK 2209-B	Ankara University
	– Ranked 3rd in the department of Biomedical Engineering – BME Design II course – Designed a battery-free, NFC-powered electrochemical measurement device supporting CV, DPV, SWV, and CA – Developed STM32 embedded firmware (C) and Android companion app (Java/Kotlin) with Gemma 3 1B on-device AI agent – Implemented custom NFC-V binary protocol, CNC-milled PCB fabrication, and 3D-printed enclosure	
2024	LocalLLM & SLM Benchmark	Personal Projects
	– Built and published Android apps for running large language models locally on mobile devices – SLM Benchmark: performance benchmarking tool for on-device small language models	

Technical Skills

Languages: Java, Kotlin, C/C++, Python, JavaScript, SQL
Mobile: Android SDK, Jetpack Compose, MediaPipe, NFC (ISO 15693)
Embedded: STM32 HAL, KiCad
Tools: Git, Qt/QML, Fusion 360, Bambu Lab, L^AT_EX