



Samet Bayat

Freelance Android &
Full Stack Web Developer

Electrical-Electronics
Engineering Student

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Blog & E-portfolio

[byte-sized adventures.](#)

Personnel

[sametb.com](#)

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Blog & E-portfolio

Summary

I am an Electrical-Electronics Engineering student and in my spare time freelance software developer (mostly Android and web). I have a passion for software, and I am always looking for new challenges in any part of engineering and science. I am a quick learner, and I am always eager to learn new technologies. I have individual experience with Kotlin, Java, Python, MATLAB, JavaScript, React, Bootstrap, HTML, CSS, Android Development, Spring Boot, JWT, Retrofit, Room, Coroutines, MVVM, Flows, Data Binding, Paging3, Ktor, Dagger Hilt, Jetpack Compose, ExoPlayer2, ESP32, Raspberry Pi, OpenCV, TensorFlow, Machine Learning, PostgreSQL, Git, VLSI design. I have developed a couple of Android and web applications and I have contributed to some open and closed source projects. I am currently I am currently developing software bundles that will make life easier for people with disabilities. I am also interested in motion pictures, art house cinema, stop motion animation, existentialism, basketball theory, poetry, Raspberry Pi & ESP hobby projects, paintings, and debates. My favorite directors are Krzysztof Kieślowski (Dekalog, Three Colours trilogy, Camera Buff), Zeki Demirkubuz and Wes Anderson. My favorite writers are Albert Camus (The Myth of Sisyphus, The Stranger) and Yusuf Atılgan (The Loiterer). Occasionally, I share my learning experience in my blog.

Education

Bachelor of Electrical-Electronics Engineering

University: **Başkent University**

Scholarship: 100%

Year: Agu 2019 - Jun 2020, Sep 2022 - Jan 2025

Expected Graduation Date: Jan 2025

GPA: **3.75/4.00**

- Cinema Society Board Member
- IEEE Başkent University Student Branch
- Computer and AI Society
- Debate Society

Bachelor of Chemical Engineering

University: **Hacettepe University**

Year: Agu 2020 - May 2022

Extracurricular: Renaissance Thought And Art,

Culture And Art In The Age Of Enlightenment

Status: **Dismissed in Summer 2022.**

- Turkish Sign Language (TSL/TİD) Society

High School

School: Ayşeabla Science High School

Scholarship: 100%

Year: 2015 - 2019

Status: Graduated

GPA: 97.35/100

- Literature Society Board Member
- School Paper Writer
- Published an anthology book about Turkish Folk Poetry: "Limoni Güldeste".

Languages

Turkish (Native)

English (Upper-Intermediate / Advanced)

German (Elementary)

Turkish Sign Language (Beginner)

Scholarships

Keçiören Municipality

Success Scholarship (2019-Ongoing)

VT Biology Ltd.

Scholarship Program (2023-Ongoing)

Bâlâ Association

Scholarship Program (2024-Ongoing)

Courses & Programs & Achievements

- Amgen Biotech Experience Program, ODTÜ & Amgen Foundation, 2016.
- A Critical Look at Tarkovsky's Cinema, 2020
- Debate Skills Program, Başkent University, 2023.
- Artificial Intelligence & Machine Learning Algorithms, Başkent University, 2022.
- Bug bounty hunter, Samsung SDK, Note Series S-Pen BLE only pens, 2022. ([Github Repository](#))
- Integrated Circuit Design EEM 410, Başkent University, 2024
- Couple of Coursera, Udemy, Udacity courses about Android Development, Machine Learning, Web Development, etc.

Skills

- Engineering

Leadership, problem solving, attention to detail, communication, active listening.

- Programming

Kotlin Android Development, Jetpack Compose, Ktor, Dagger Hilt, Retrofit, Room, Coroutines, MVVM, Flows, Data Binding, KMP

Java Android Development (for legacy projects), Spring Boot, JPA, Hibernate, Spring Security (JWT)

JADX Decompiling jars, APKs, Ethical Reverse Engineering

Web Development ReactJS&TS, Tailwind, Bootstrap, Kobweb, Streamlit.

Python Machine Learning, Tensorflow, OpenCV, Flask, Data Analysis, Web Scraping, BeautifulSoup

C/C++ To manage microcontrollers, websocket, simple mutex and semaphore

MATLAB Engineering Toolboxes, Image Processing, Signal Processing, Machine Learning, Simulink

AppleScript Occasionally, I write scripts to automate my daily tasks on macOS.

Database PostgreSQL, Room, MongoDB, RealmDB, SQLite

Version Control Git

Job Experience

Company: Assan Electronics

Position: R&D Intern

Term: Agu 2023

Description: I gained experience in electronic card production line, and I developed applications to facilitate daily life in the company (Handwriting Scanner, Bunch of APIs powered by Google Apps Script etc.)

Company: Outlier AI

Position: AI Trainer & Content Writer

Term: May 2024 - Ongoing

Description: I specialize in refining AI models and creating culturally resonant content. Leveraging my expertise in Turkish literature, especially poetry, I ensure that AI systems accurately understand and generate Turkish text with nuance and authenticity. My role involves training AI models, producing engaging written content, and enhancing language models with rich literary insights to deliver high-quality, contextually relevant material.

Company: Aselsan

Position: Intern

Term: Agu 2024 - Sep 2024

Description: I gained knowledge about radars and the communication principles behind them. (Semaphore, mutex, etc. with C/C++) also I create a websocket server and a modern UI to simulate and visualize the data.

Projects

CineQuilt

Description: A personalized movie & TV show streaming platform.

Technologies: React, Bootstrap, Java Spring Boot, PostgreSQL, Gradle, Python, BeautifulSoup, Spring Security, JWT, Netlify, Render, DLNA, OpenAI API, Spotify API, Deezer API, Google SMTP.

[E-portfolio Post & Github Link](#)

Website: cinequilt.netlify.app

Localoedon (Legacy)

Description: DLNA media stream app.

Technologies: Java, Kotlin, Android Studio, Volley, Leanback, ExoPlayer2.

[E-portfolio Post](#)

Ctrl + C (ssClipboard)

Description: Clipboard manager, text expander text box assistant, text scanner.

Technologies: Kotlin, Android Studio, Room, Coroutines, MVVM, Data Binding, Android Accessibility Service, Rest API, Google Apps Script, JavaScript, HTML, AppleScript.

App Features: Text Expander, Text Box Assistant, Swipe to Delete & Share, Global Clipboard Manager (Clipboard History can be accessed from anywhere: Android app (mobile, tablet or TV), web app / via browser, Google Sheets), Text Scanner (OCR).

[E-portfolio Post](#)

A Comprehensive Review of Face Detection, Tracking & Face Swap Algorithms with MATLAB Applications

Description: In this study face/feature detection, feature tracking and face swap applications handled and evaluated with Viola Jones, KLT and MPB algorithms. The work includes three different applications: 'Real Time Face Tracking', 'Image Editing/Blending' and 'Video Editing/Blending'. The open-source content of Mahmoud Afifi (York University) is used as the video processing dataset and MATLAB code guide. The aim is to examine the algorithms in detail, how MATLAB used it and to determine the proportionality of the application-theoretical knowledge common shares.

Role: Researcher, Developer

Technologies: MATLAB, Viola Jones, KLT, MPB, OpenCV.

[E-portfolio Post & paper](#)

Android as Server

Description: This project demonstrates how to run an HTTP server in an Android app with Ktor.

Technologies: Kotlin, Android Studio, Ktor

GitHub: [samet-byte/Android-as-Server](https://github.com/samet-byte/Android-as-Server)

Just me! - Robot Arm with Computer Vision for Disabled Persons

Description: A robot arm project that helps disabled persons to control robotic arms and vehicles with face gestures using computer vision.

For: Graduation 1st Project

Role: Developer, Researcher, Project Leader.

Technologies: C, Python, Raspberry Pi, OpenCV, TensorFlow, Machine Learning, Robotics, Automation, Streamlit.

Hoops Insight

Description: A basketball players' statistics and analytics platform. Mostly to improve my skills in Jetpack Compose.

Technologies: Kotlin, Android Studio, Jetpack Compose, Dagger Hilt, Retrofit, Coroutines, MVVM, Flows, Paging 3, Room, Ktor, Palette API, Python, BeautifulSoup.

[E-portfolio Post](#)

byte-sized adventures.

Description: My life-long project is a dynamic ecosystem that includes my personal website, blog, helper apps, and APIs, all seamlessly interconnected. I actively explore GitHub and open-source projects, enhancing those that resonate with me and sharing the improvements on my platforms to acknowledge and appreciate the original creators.

Technologies: Kobweb, Kotlin, Ktor, React, Jekyll, Flask (Python), Google Apps Script, Jetpack Compose, SMTP.

sametb.com | [Blog](#) | [ui95](#) (Forked from @AshKyd)

Bluetooth Speaker with Bandpass Filter

Description: Developed to learn bandpass filters and signal and audio processing.

Role: Team Leader

DataDoodle

Description: An user-friendly, secure and free approach to convert Google Sheets data to RestAPI.

Technologies: Flask (Python), Vercel.

[E-portfolio Post](#)

Some other projects:

[HIMYM Websites Revival Project](#)

[Project Frame](#)

References

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