



Samet Bayat

Freelance Android Developer

Electrical-Electronics
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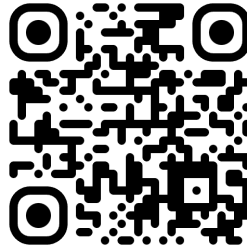
[@sametbayat](#)

GitHub

[@samet-byte](#)

Blog

[byte-sized adventures.](#)
[sametb.com](#)



Summary

I am an Electrical-Electronics Engineering student and in my spare time freelance software developer (mostly Android). I have a passion for Android development, 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, Paging 3, Ktor, Dagger Hilt, Jetpack Compose, ExoPlayer2, ESP32, Raspberry Pi, OpenCV, TensorFlow, Machine Learning, PostgreSQL, Git, etc. I have developed a couple of Android applications and I have contributed to a couple of closed source projects. I am currently working on a robot arm project for agriculture applications. 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 favourite director is Krzysztof Kieślowski (Dekalog, Three Colours trilogy, Camera Buff) and my favourite 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: **3.77/4.00**

Bachelor of Chemical Engineering

University: **Hacettepe University**

Year: Agu 2020 - May 2022

Status: **Dismissed from the university in Summer 2022.**

GPA: 3.15/4.00 (2nd year)

High School

School: Ayşeabla Science High School

Scholarship: 100%

Year: 2015 - 2019

Status: Graduated

GPA: 97.35/100

Languages

Turkish (Native)

English (Upper-Intermediate / Advanced)

German (Elementary - Ich kann ein bisschen Deutsch sprechen.)

Turkish Sign Language (Beginner)

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

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

JADX Decompiling jars, APKs, Ethical Reverse Engineering

Web Development React (Beginner-Intermediate), Bootstrap, HTML, CSS (Beginner-Intermediate), JavaScript, TypeScript (Still learning)

Python Machine Learning, Tensorflow, OpenCV, Flask, Data Analysis, Web Scraping, BeautifulSoup (Beginner-Intermediate)

C To manage microcontrollers

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

Projects

CineQuilt

Description: A personalized movie & TV show streaming platform.

For: Term Project

Role: Full Stack Developer

Status: Completed (Oct 2023 - Jan 2024)

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

GitHub:

CineQuilt Frontend, React
(<https://github.com/samet-byte/frontend-react-cinequilt-js>)

CineQuilt Backend, Spring Boot
(<https://github.com/samet-byte/CineQuilt>)

Localoedon

Description: DLNA media stream app.

Status: Completed (Summer 2021 - Occasionally Updated)

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

Ctrl + C (ssClipboard)

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

For: Personal Project (Closed Source)

Role: Full Stack Developer

Status: Completed (Summer 2023 - Occasionally Updated)

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

Note: Because of the app has features that can be easily abused (like a keylogger), I do not share the source code.

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), Dark Mod.

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.

For: Term Project

Role: Researcher, Developer

Status: Completed (Sep 2022 - Dec 2022)

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

Hoops Insight

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

For: Personal Project

Role: Full Stack Developer

Status: Completed (Fall 2023)

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

GitHub: (Repositories will be public after evaluating the code quality)

Front-end (<https://github.com/samet-byte/Android-JetpackCompose-HoopsInsight>)

Back-end, Ktor (<https://github.com/samet-byte/ktor-server-nba>)

Back-end, Flask (<https://github.com/samet-byte/flask-nba-server>)

Gemini API Demo App
(<https://github.com/samet-byte/Android-Jetpack-Gemini-Demo>)

Description: An Android application that demonstrates the Gemini API. Developed in a short time to learn the Gemini API and discover its capabilities.

For: Personal Project

Role: Developer

Status: Completed (Dec 2023)

Technologies: Kotlin, Android Studio, Retrofit, Jetpack Compose, Gemini API.

Samsung SPen SDK Demo Ap
(<https://github.com/samet-byte/SPen-Button-Feature>)

Description: An Android application that demonstrates the Samsung SPen SDK.

Developed in a short time to learn the Samsung SPen SDK and discover its capabilities.

For: Personal Project

Role: Developer, Bug Hunter

Status: Completed (Summer 2023)

Note (for the curious): I found a bug in the Samsung SPen SDK about BLE only SPens and reported it to Samsung. Waiting for a response.

Technologies: Java, Kotlin, Android Studio, Samsung SPen SDK.

Android as Serve
(<https://github.com/samet-byte/Android-As-Server>)

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

For: Personal Project

Role: Developer

Status: Completed (Jan 2024 - Ongoing)

Technologies: Kotlin, Android Studio, Ktor

Bluetooth Speaker with Bandpass Filter

Description: A Bluetooth speaker project that uses a bandpass filter. Developed to learn bandpass filters and signal and audio processing.

For: Term Project

Role: Developer, Team Leader

Status: Completed (Spring 2023)

Ongoing Projects:

Robot Arm with Computer Vision for Agriculture

Description: A robot arm project that helps in agriculture uses computer vision. Developing to learn robotics and automation.

For: Graduation Project

Role: Developer, Researcher

Status: Ongoing (Feb 2024 - Jun 2024)

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

Intern Experience

Company: Assan Electronics Inc.

Position: R&D Intern

Dates: Agu 2023

Description: I developed applications to facilitate daily life in the company (Handwriting Scanner, Bunch of APIs powered by Google Apps Script etc.)

Courses & Programs

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

Integrated Circuit Design EEM 410, Başkent University, 2024

Couple of Coursera, Udemy, Udacity courses about Android Development, Machine Learning, Web Development, etc.

Interests

Motion Pictures & Art House Cinema, Stop Motion Animation, Existentialism, Basketball Theory, Raspberry Pi & ESP Hobby Projects, Paintings, Art History, Poetry (Turkish), Debating.

Inspirations

Whitcomb L. Judson, Sir Alsatir Pilkington Oktay Sinanoğlu, Cemal Safi, Orhan Veli Kanık, Melih Cevdet Anday, Krzysztof Kieślowski, Wes Anderson, Stanley Kubrick, Zeki Demirkubuz, Albert Camus, Yusuf Atılgan, Hakeem Olajuwon, Marie Kondo.