Samet Bayat

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Redirect Page

E-Resume

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 Engieering
University: **Başkent University**
Scholarship: 100%
Year: Agu 2019 - Jun 2020, Sep 2022 - Jan 2025
Graduation: Jan 2025
GPA: **3.77/4.00**
- 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 (2019-2024)
VT Biology Ltd.
Scholarship Program (2023-2025)
Bâlâ Association
Scholarship Program (2024-2025)

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

Just me! - Robot Arm with Computer Vision for People with Disabilities
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.

Speechess – Chess Playing Robot Arm for People with Disabilities
Description: A robotic arm with 2D, 3D computer interface utilizing Stockfish and computer vision to play chess pieces in response to voice commands (STT).
Technologies: Python, Raspberry Pi, OpenCV, TensorFlow, Machine Learning, Stockfish, C++, Robotics, Automation, ReactJS, WebSocket.
For: Graduation 2nd Project
Role: Developer, Researcher, Project Leader.

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.
samet.uk.to | 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. E-portfolio Post
Technologies: Flask (Python), Vercel.

Some other projects:
HIMYM Websites Revival Project
Project Frame
Hoops Insight

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References

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