



Utku Acar

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SUMMARY

Senior Software Specialist focused on Android/Google TV and AOSP development. Experience spanning platform bring-up, feature implementation, and CI/CD automation across multi-repo codebases. Proficient in Java, Kotlin, C/C++, Python, and Bash; strong with Git/SVN, Linux, and build/test orchestration. Domain exposure to computer vision, AI/ML, networking, and security. Seeking software roles where I can drive reliability, developer productivity, and high-quality releases.

TECHNICAL SKILLS

Languages: Java, Kotlin, C, C++, Python, Bash, MATLAB, Verilog HDL

Android/AOSP: Android TV, Google TV, AOSP, platform services, build systems, Gradle

DevOps/CI: CI/CD, build/test automation, shell/Python tooling, Docker, artifact management

Tools/OS: Git, SVN, JIRA, Ubuntu/Linux, Windows, Wireshark, GNS3, LTSpice, Quartus

Domains: Platform engineering, Computer Vision, AI/ML, Networking, Security, Blockchain

EXPERIENCE

Vestel Electronics

Senior Software Specialist

Aug 2024 – Dec 2025

Manisa, Turkey

R&D – Android/Google TV SW Team; AOSP-based development for Android TV/Google TV devices

Contributor across 3 Google and 6 Android TV projects; feature work and maintenance in platform services

Project Code Responsible for 2 Android TV projects (code health, reviews, branching, release readiness)

Built CI/CD and local automation to orchestrate multi-repo AOSP builds and tests (Bash/Python)

Vestel Electronics

Software Specialist

Aug 2023 – Aug 2024

Manisa, Turkey

Vestel Electronics

Software Engineer

Jul 2022 – Aug 2023

Manisa, Turkey

PROJECTS

AOSP Build/Test Automation Toolkit (Jan 2023 – Present) – Tech: Python, Bash, Linux, Git

Standardized multi-repo build/test orchestration for Android/Google TV; automated environment setup, smoke tests, log and artifact collection.

Android TV Platform Contributions (Jul 2022 – Present) – Tech: Android, AOSP, Java/Kotlin

Feature fixes and configuration updates in Android/Google TV platform services; code reviews and release readiness.

intel.undervolt.ubuntu (Sep 2025 – Present) – Tech: Bash, Python (venv), systemd, Linux

Safe installer wrapping 'undervolt' in a dedicated venv; systemd service applies core/cache offsets on boot; msr module autoload, Secure Boot caveats, verification commands.

Advanced Disk Cloner (Sep 2025 – Present) – Tech: Bash, Linux, dd, partclone, ntfscclone

Single-file, menu-driven cloner/archiver/restorer; used-block imaging per partition; preserves GPT GUID/PARTUUIDs, supports partial restore, GPT backup repair, progress and manifest outputs.

Advanced_Video_Downreamer (Sep 2025 – Present) – Tech: Android, Kotlin/Java, Networking
Android downloader/streamer enabling parallel video transfers to maximize available bandwidth with queueing and retries.

Android_Network_Speed_Overlay (Sep 2025 – Present) – Tech: Android, Kotlin, Foreground Service
Floating status-bar overlay using TrafficStats; smart 1s updates, draggable with position memory, OLED dark theme, low CPU/memory/battery footprint, tiny APK.

OCR_GPT (Sep 2025 – Present) – Tech: Android, Kotlin, ML Kit, CameraX, WebView, Groq API, OkHttp, Coroutines
Multimodal chat app with OCR mode (on-device ML Kit) and chat mode (Groq LLM); conversation history, dynamic model fetching, multi-API key rotation/failover, image cropping, and rich markdown display.

Ubuntu_System_Monitor_Taskbar_Widget (Sep 2025 – Present) – Tech: Linux, Bash/Python
Lightweight panel widget to monitor CPU, RAM, GPU, Disk, and Network metrics with alerts.

Video_Downreamcoder (Jan 2024 – Jan 2024) – Tech: Python, Web
Web app to download, stream, and encode video files with queueing and format presets.

DSInterpretabilityFairness (Feb 2023 – Jun 2023) – Tech: Python, ML
Course projects on fairness/interpretability techniques; applied SHAP/LIME and bias metrics to datasets.

Data-Science (DS555.V) (Feb 2023 – Jun 2023) – Tech: Python, ML, Visualization
Business-focused data science analyses; feature engineering, modeling, and insight communication.

NetworkSecurity (CS542.V) (Sep 2022 – Dec 2022) – Tech: Security, Networking, Wireshark
Labs/projects on cryptography, secure protocols, and traffic analysis.

ComputerVision (CS523.V) (Sep 2022 – Dec 2022) – Tech: Python, OpenCV, DL
Implementations of classical CV and deep learning pipelines for vision tasks.

Software-Testing (CS575.V) (Sep 2022 – Dec 2022) – Tech: Testing, CI
Assignments on unit/integration testing, coverage, and static/dynamic analysis.

Video-Frame-Interpolation (Aug 2023 – Aug 2023) – Tech: Python, PyTorch
Deep learning project reproducing IFRNet-based video frame interpolation.

Term_Project (Oct 2021 – Jan 2022) – Tech: Python, Keras
Binary classification of brain tumors (HGG vs LGG) from MRI slices; accuracy reported at 99.7%.

EE451.Communication.Systems.II (Oct 2021 – Jan 2022) – Tech: MATLAB, Simulink, AWGN, BER/SNR, QPSK/QAM/FSK, FIR/IIR, FFT, Channel Coding
Implemented and analyzed digital/analog modulation, matched filtering and BER vs SNR in AWGN; explored QPSK/QAM constellation behavior, basic channel coding/decoding, and filter/FFT-based signal analysis.

IRC_Based_TCP_Server (Oct 2021 – Jan 2022) – Tech: C/C++, Sockets
IRC-style TCP server handling channels, messaging, and basic moderation commands.

Optical Angular Position Encoder (Feb 2020 – Jul 2020) – Tech: Analog Circuits, Photoresistors, Schmitt Trigger, Proteus, LTSpice
Designed a circuit to detect angular rotation using photoresistors; implemented a Schmitt trigger to threshold and stabilize sensor voltage. Associated with Izmir Institute of Technology; group project (3).

EDUCATION

Ozyegin University <i>M.Sc. in Computer Science & Engineering</i> Program discontinued at thesis stage (A.B.D.) GPA: 3.96 Thesis: Blockchain-Based Security Solutions in IoT Environments	Istanbul, Turkey Sep 2022 – Aug 2025
Izmir Institute of Technology <i>B.Sc. in Electronics and Communication Engineering</i> GPA: 3.0 Thesis: Brain Tumor Binary Classification from MR Images with Deep Learning	Izmir, Turkey Oct 2017 – Feb 2022
Patika.dev <i>Bootcamp, Technical Support</i> Jotform Technical Support Bootcamp	Online May 2022 – Jun 2022
High School Diploma (Quantitative), Private Akant High School – Valedictorian	

CERTIFICATIONS

Cisco — Introduction to Cybersecurity

Cisco — Networking Essentials

Udemy — Beginning C++ Programming: From Beginner to Beyond

Udemy — Secure Coding in C/C++

Udemy — ChatGPT Complete Guide: Learn Midjourney, ChatGPT 4 & More

Udemy — Complete Linux Training Course to Get Your Dream IT Job 2022

Global AI Hub — Introduction to Deep Learning

Global AI Hub — Data Visualization

Udemy — Ethereum Blockchain Developer Bootcamp with Solidity (2023)

Udemy — Blockchain and Bitcoin Fundamentals

Global AI Hub — Version Control and Portfolio