AHMET UGUR ILTER
SOFTWARE ENGINEER

SKILLS

Data Structures & Algorithms
Networking
Wireless Networking
Embedded Software Development
Debugging
Linux
Agile Development (Scrum)

EXPERIENCES

C — ★★★★★
Git — ★★★★★
GDB — ★★★★☆
Python — ★★★★☆
Shell Scripting — ★★★☆☆
Javascript — ★★★☆☆

TOOLS

JIRA
Gerrit

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Web

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Address

İzmir, Turkey

PROFESSIONAL SUMMARY

Joined Airties Wireless Networks right after my graduation in 2017 via Airties SummerSeed Program where a month long summer camp is held in order to introduce prospective engineers to Embedded Systems and Linux.

Currently i have **6 years** of embedded development experience including maintenance and development of several kernel modules, wireless applications in **Linux** ecosystem with **C** programming language and have a good understanding of computer networking and wireless networks.

I use **python & bash scripting** most of the time for unit testing during my development phase. I have experience with applications & libraries like **valgrind**, **gdb** and **dmalloc**.

Other than embedded C development, in my spare times i get involved with web development technologies such as jquery, nodejs, reactjs, nextjs & flask. I have used different database systems according to my needs such as mongodb, postgreqsl, mysql. I tend to write utility applications during my development in order to parse big chunks of data or draw graphs from live data, etc. I checkout and follow interesting projects i find on GitHub Explore.

WORK HISTORY

2022-Current
Sr. Embedded Software Engineer
Airties, Izmir

06-2020 - 03-2022
Experienced Embedded Software Engineer
Airties, Izmir

- I got promoted to Experienced Software Engineer title after successfully developing and maintaining both existing and new solutions in order to meet customer requirements.
- Lead various critical company projects and delivered on time successfully.
- Earned internal "Airties Star" award two times in years 2020 and 2021 after delivering two challenging projects in committed time frame.

08-2017 - 06-2020
Embedded Software Engineer
Airties, Izmir

- Started as a software engineer in the wireless core development team where i worked mostly on bug fixing and enhancing the wireless drivers of different vendors to work seamlessly with cutting-edge Airties technologies.
- I took place in design and development of various proprietary AirTies features in both user and kernel space.
- Worked closely with testing team members to design and develop robust solutions to meet client requirements for functionality, scalability and performance.
- Volunteered to be instructor of AirTies' SummerSeed Program for years 2018 & 2019.

08-2017 - 06-2020
Software Engineering Intern
Airties, Izmir

- Joined Airties' internship programme called "SummerSeed" where we were expected to overcome several challenges.
- Challenges consisted of user-space and kernel-space applications written in C language.
- Successfully finished the programme as a first place holder and got an offer to join Airties as a full-time software engineer afterwards.

| 10-2016 - 02-2017 | **Software Engineer** |
| | ASTRON, Izmir |

- Worked as a software engineer on the ERP project of Yasar holding company and improved my skills on Java and SQL.
- Worked with software development and testing team members to design and develop robust solutions to meet client requirements for functionality, scalability and performance.
- Reviewed project specifications and designed solutions that met or exceeded performance expectations.

| 06-2016 - 09-2016 | **Software Engineering Intern** |
| | FCR Tech, spol s.r.o, Prague |

- Worked on the yellow pages project of the company as an intern software engineer.
- Collaborated with software engineers to develop and test application procedures for system efficiency.

| 06-2015 - 06-2016 | **Undergraduate Teaching Assistant** |
| | Yasar University, Izmir |

- Coordinated and maintained the computer laboratories.
- Attended "Data Structures" course as a UTA.
- Checked assignments, proctored tests and provided grades according to university standards.
- Documented attendance and completed assignments to maintain full class and student records.
- Taught small groups of students focused on specific parts of coursework.

EDUCATION

| 2013-2017 | **SOFTWARE ENGINEERING** |
| | BSC / YASAR UNIVERSITY, IZMIR |

HONORS & AWARDS

- Earned 2nd place award in GBYF (Young Brains & New Ideas) project competition with my fully automated pet feeder project named "Salem".
- Graduated as 2nd place honors student from the Department of Software Engineering, Faculty of Engineering in 2017 with a degree of 3.56/4.00.
- Earned "Airties Star" internal award two times (2020, 2021) during my work in Airties.

PROJECTS I WORKED ON

2016-2017   **DIJITAL.BAYI**
ASTRON, Yasar Bilgi Islem, Izmir

- Worked as a Software Engineer in Java Development team on dijital.bayi project which is an ERP software for Yasar's internal customers such as Pinar Su.

2018-2022   **CLOUD BASED MESH NETWORK OPTIMIZATION**
Airties, Izmir

- Development and maintenance of a Wi-Fi channel selection application on multiple chipset platforms, re-designed it to be compatible with working in a cloudassisted fashion. The project was also funded by TUBITAK. (Link)

2018-2019   **SYNCHRONIZED WIRELESS CLOCK**
Airties, Izmir

- Designed and implemented a synchronized Wi-Fi clock for mesh nodes in multiple platforms, using uptime of wireless drivers.

2018-2019   **EMBEDDED SPEEDTESTING CLIENT & SERVER**
Airties, Izmir

- Designed and implemented embedded speedtesting server and client applications.

2019-2022   **ZERO TOUCH INSTALLATION / DPP**
Airties, Izmir

- Re-architecture and maintenance of an existing device provisioning protocol for onboarding Wi-Fi mesh nodes using QR codes and Elliptic Curve Cryptography with zero user interaction.

2019-2022   **WIFI EASY CONNECT / DPP**
Airties, Izmir

- Design and development of Device Provisioning Protocol (a.k.a. WiFi Easy Connect) on top WiFi Easy Mesh R3 / R4 architecture for AP and client onboarding.