Miradil Zeynalli

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EDUCATION

- **Lund University –** Lund, Sweden **(2022 – Present)**
  MS in Embedded Electrical Engineering
- **ADA University –** Baku, Azerbaijan **(2015 – 2019)**
  BS in Computer Engineering
  GPA: 3.91/4.0 *(Summa Cum Laude Latin Honor)*
- **Koc University –** Istanbul, Turkey **(2017)**
  Erasmus Exchange Program, Electrical Engineering
  GPA: 3.89/4.0

EXPERIENCE

Axis Communications, Lund, Sweden
Mar 2023 - Present

Part-Time, Platform Security Engineer

- Getting into kernel level functions and handling memory access.
- Writing unit tests for added functions.
- Working with OTP memories and manipulating them.

Starex, Baku, Azerbaijan
Jun 2021 – Aug 2022

Lead Python Django Developer

- Integrated payment system for increasing balance.
- Configured ELK + Filebeat stack on docker for logging.
- Optimized API endpoints and views by using URL expressions and grouping by apps.
- Wrote periodic tasks for celery and Django commands for single use feature/bugfixes.
- Documented and wrote test units for project, thus dramatically decreasing total count of bugs.

Sumaks Technologies, Baku, Azerbaijan
Nov 2017 – June 2021

Senior Embedded Software Engineer

- Worked on developing library for sensors and modules.
- Updated old codes to more optimal and secure versions.
- Researched solutions to reduce overall cost of project, including OTA, MQTT, LoRaWAN.

AWARDS/CERTIFICATES

- Qiskit Global Summer School 2020
- Microsoft Azure Machine Learning 2020
- AquaHack (2020) – 2nd place
- CanSat Azerbaijan (2019) – 1st place
- Republican Olympiad in Informatics (2018) – 2nd place
- ACM Sub-Regionals (Georgia, 2018) – 2nd place
- World School Chess Championship (2015) – 1st place

PROJECTS

Kibrit 3G **Mar 2020 – May 2021**
Sumaks Technologies

- Constructed star network of sensors with gateway as host.
- Developed low-power nodes with a lifetime of 3 and 9 months.
- Used LoRa technology for communication between nodes and gateway and 3G for internet connection.
- Created Python and bash scripts to run Raspberry Pi gateway as receiver and create hotspot for IP cameras.

Smart LED Display v2 **Mar – Aug 2020**
Sumaks Technologies

- Developed extension to control P10 LED Displays remote.
- Established WLAN connection with server using BeagleBone Black in Linux environment.
- Customized and optimized (added language support) to ready font-creating Java software to the needs of customer.

AQI (Project Leader) **Oct 2019 – Feb 2020**
Sumaks Technologies

- Led a team of 4 and worked with them to create device for calculating Air Quality Index in packed places of city.
- Collaborated with other team, who was responsible for server-side. Delivered technical plan for them.
- Utilized I2C, UART and 1-Wire protocols and tinkered libraries for more than 8 modules/sensors.
- Merged all libraries and launched final product.

Greencycle **Jan 2019 – Feb 2020**
iQrex/Freelancer

- Programmed device for green tech smart aquarium “garden”.
- Utilized high-tech sensors to get real-time data from all critical points of aquarium.
- Teensy microcontroller was used for handling all sensors and for fast data processing and manipulation.
- Added remote support for both manual and automatic watering control.

ADDITIONAL INFORMATION

Languages: Azerbaijani, English**,** Russian, Turkish

Technical Skills: STM32, ATmega, Teensy, C/C++, Python3, PL/SQL, Postgres, DSA, Git, FastAPI, Django, DRF, Docker, Celery, Unit testing, VHDL, Cadence

Interests: Chess, Reading, Movies, Quantum Computing, ML

Publications: Transformation, Analysis and Visualization of Distributed Temperature Sensing Data generated by Oil Wells | IEEE Conference Publication | IEEE Xplore