AYOUB MALEK

Electrical engineering student & Software developer

Tunisian · 25 years old · Single · No kids

@ superkogito@gmail.com · Munich, Germany · Ayoub Malek's blog · in Linkedin/Ayoub Malek · Github/SuperKogito · Stackoverflow/SuperKogito

FIELDS OF KNOWLEDGE

Speech processing · Speaker recognition · Data processing · Telecommunications · Antenna measurement · Indoor localization · IoT systems · Signal processing · Embedded security · Machine learning · Software development · Linux OS · ...

EXPERIENCE

Software developer (working student)

Yoummday GmbH

📅 June 2018 – November 2018   📍 Munich, Germany

- Develop a voice authentication system to detect fraudulent connections.
- Process & visualize huge audio data and generate a training & testing database.

Speech processing · Speaker authentication/ Verification · Unsupervised learning · Classification · Data visualisation · Python · Sphinx-documentation

INTERNSHIPS

Embedded security developer (research internship)

blik GmbH

📅 August 2017 – November 2017   📍 Munich, Germany

- Secure the communications in a sensors network (TI cc2650 sensors & a Rasbperry Pi broker)
- Implement symmetric encryption (AES-128) and hashing algorithms (SHA-256).

Embedded security · Micro-controller · IoT · C · TI cc2650 · Python · Raspberry Pi · Authenticated encryption · AES-128 · SHA-256 · Contiki OS · MbedTLS · Eclipse

GUI designer & developer (engineering internship)

eCARus, Technical University of Munich

📅 August 2014 – October 2014   📍 Munich, TUM

- Develop an informative android app & Translate the Typo3 eCARus webpages to english.
- Design & develop the GUI for the Elektrobit based app with dual-language (English / German) feature.

Android java · Elektrobit · Design tools · Typo3 · Foreign languages

ACTIVITIES AND LEADERSHIP

Mentor

MIX program, Technical University of Munich

📅 October 2016 – August 2017   📍 Munich, Germany

- MIX Program = Mentoring for International Exchange Students.
- Assist exchange students during their time at the TUM.
- Answer questions about the student life in Germany.
- Introduce them to the Münchner-Studentlifestyle.

Networking · Cultural exchange · Foreign languages practice

Treasurer

Tunesische Akademiker Gesellschaft, TAG e.V

📅 Oct 2013 – July 2014   📍 Munich, Germany

- Set-up events budgets, control expenses and seek new income resources.
- Collect the membership fees, prepare the Bills and assist other factions when needed.

Microsoft Excel · Networking · Financial reporting · Budget control

EDUCATION

M.Sc. in Electrical Engineering and Information Technology

Technical University of Munich

📅 March 2017 – ongoing

- 5th semester
- Master Thesis at Rohde & Schwarz: Data processing

compressed sensing · data processing · machine learning

B.Sc. in Electrical Engineering and Information Technology

Technical University of Munich

📅 September 2014 – March 2017

- Bachelor Thesis at TUM: Simulation Tool for WiFi Based Localization
- **Bachelor thesis grade = 1.0**

WiFi-based ndoor localization · simulation · matlab

Deutsche Sprachprüfung für den Hochschulzugang (DSH) & Feststellungspruefung (FSP)
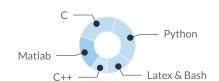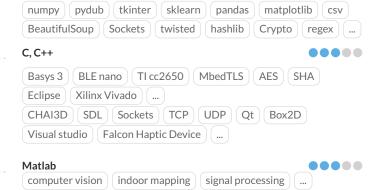
Heidelberg University

📅 September 2012 – June 2013

High School Graduation Diploma

Lycée pilote Monastir (Pioneer High-school in Monastir)

📅 September 2008 – March 2012

- Specialization Area: Technology (technical diploma),
- **Grade = 1.3**: Top 15 best Tunisian students in 2012 - government scholarship to study in Germany (with DAAD supervision)

PROGRAMMING LANGUAGES

Python ●●●●○

numpy · pydub · tkinter · sklearn · pandas · matplotlib · csv · BeautifulSoup · Sockets · twisted · hashlib · Crypto · regex · ...

C, C++ ●●●○○

Basys 3 · BLE nano · TI cc2650 · MbedTLS · AES · SHA · Eclipse · Xilinx Vivado · ... · CHAI3D · SDL · Sockets · TCP · UDP · Qt · Box2D · Visual studio · Falcon Haptic Device · ...

Matlab ●●●○○

computer vision · indoor mapping · signal processing · ...

LANGUAGES

Language	Level
Arabic	●●●●●
English	●●●●○
German	●●●●○
French	●●●●○