

# MAIKEY ZAKI BIA KHORANI

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# PROFILE

I am a graduate programmer, with good communication skills and academic qualifications; I have graduated with a B.Sc. degree in Software Engineering, and I have started working in the university as a teaching assistant since 2009. I possess a proven ability to ensure computer software programs are functional, safe and meet the needs of the client. I am easy going by nature and able to get along with both work colleagues and senior managers. Besides my academic work at the university, I started my masters in computer science engineering at Pázmány Péter Katolikus Egyetem 2017. Also, I intend to become a practicing programmer in my field, I am interested in web development & Designing algorithms and networking.

# Experience and Achievements

* **Master Thesis, 2019 to 2020,** thesis working on data Analysis and machine learning for speech- music playlist generations.
  + tutoring research:<https://drive.google.com/file/d/1OMCeTaIGdre311g556tTIkJQRKyPElcH/view?usp=sharing>(Tutoring research1)<https://drive.google.com/file/d/1bQRZKhqLh-TeXzC3N_akDpVKCH2TQC_U/view?usp=sharing>(Tutoring research2)
* **‘SIRC’ Epidemiological model, and we applied four types of Algorithms. parameter estimation for data and machine learning using matlab,** we generated data for

<https://docs.google.com/presentation/d/1cAgG4rp_DZzU4q60A8FbAvMICjfh79S3Pfc11px6EQs/edit?usp=sharing>

* **Timer and interrupt operation. using python** ,**Qt, Raspberry Pi. At University laboratory VLSI.** Start the camera grab an image and display it in a loop. Set the timer to generate interrupt repeatedly in every 2000ms. When the interrupt occurs display the next image in a separate window. Prove the correct operation by capturing images from a running stopwatch .

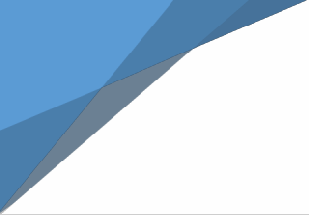
<https://drive.google.com/file/d/1ZQMIDIjVX9Z8K7K0ZOFsXXS0Ad4UYT_S/view?usp=sharing>

* **Jedlik Innovacio Kft, skin segmentation in PPKE ITK laboratory of ultrasound by using python, Internship, summer, 2018.** period: two months. Evaluation: Excellent.
* **Image processing tasks using Matlab programming language. On the first semester 2017 of studying my MSc.** supervised and unsupervised algorithms, video tracking, different assignments and laboratories, the code I wrote in python and I used numpy py,opencv, tkinter detected almost 80%-85% of ultrasound images.

https://drive.google.com/file/d/1CaQcVVkQVv0w-dxT\_NnXxBKA8DjwOMGl/view?usp=sharing

* **video and audio analyzing. On the second semester 2018, using python, text and speech analysis using OpenCV and many other libraries.** plotted audio signal spectrum and converted the video to multiple frames to get data.
* **Teaching Assistant, 6 Septemper 2009 to current , University of Salahaddin/ College of Engineering, Higher Education,** working in the Laboratories of college assisting students with their programs. (After two years as teaching assistant in the university I have designed and implemented a Robot using Microsoft Visual C++, OpenGL with a group of two students 2010- 2011. I have been working in the laboratories I was responsible for network connection, formatting,

installing programs, besides programming with Java, C++, OpenGL C++, AutoCAD, packet tracer and assigned projects to students and helped them in their coding to improve, as well as using database and writing SQL codes).



* **world youth day website in Erbil - Ankawa, Saint Joseph Church, Coding, Implementation, and Publishing. Starting from May 2013 until Jun 2013,** Volunteered and worked on designing and managing this website with two of my colleagues who were software engineers as well, we used PHP coding, javascript, and HTML, as well as CSS for designing, this website was designed to publish some video’s about recent activities for youth and invited other youth to join , as well as we linked it to some Facebook commands like comment and like which made our users more interactive with our website, and they liked it. )
* **Data Center Erbil - Ankawa, as forms administrator, Auditing, filtering, Database Manager, Reporting, Data Entry Room observer and organizer of giving id cards. Starting from 15/8/2014 until Jan/2015,** Volunteered to help the Refugees from Nineveh and its Districts in the
* **Catholic University/ Erbil, community course since the 20th of May 2016 to 18th of August 2016,** Working as a lecturer in computer laboratories of college as well as followed the Book techniques of(ICDL ‘international computer driving license ’).
* **Undergraduate Thesis,** 2009 september.
* **Database (access) forms for refugee 2006-2007** (entity relationship, tables forms, it was used to provide sanitation and food and help for refugee people in my area), In my second year in Bachelor, project in college.
* **Satellite and communication networking, Jul 2008 to Sep 2008,** Summer training, Dalia Sat Company-Ankawa (satellite company we were introduced to different devices that were used for this company to connect to different channels)

# Education

* Msc. Student at Pazmany Peter Catholic University/ Computer Science Engineering CSE. / Sep 2017-2020(on progress)

<https://drive.google.com/file/d/1Y6iR4fW8OV4SCm2NPXgZEQlA4GjELNba/view?usp=sharing>

* Diploma for philosophy and theology from Babel College for Philosophy & Theology / Oct 2009 to Oct 2012
* B.Sc. in software engineering /University of Salahaddin/ College of Engineering/ Department of Software Erbil-Iraq/ Oct 2005 to Jul 2009

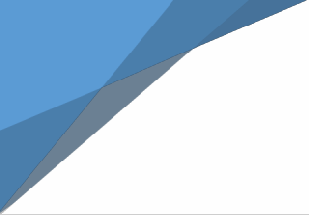
# Languages

Aramaic (Chaldean): Mother tongue ,Native English: excellent(Europass)

Arabic: excellent Kurdish: excellent Hungarian: Basics

# Certifications

* CCNA1 course (Cisco Certified Network Associate), 2009.
* PHP course, NITA, April 2013.
* IELTS Intermediate plus High course, 24 April-5 June 2012.
* IELTS Upper Intermediate 1 course, 17 June-18 July 2012.
* Software Engineering annual fair (SEDAF) 2008,2009 , university certificate, I designed an application interface program with java "Textpad" .



# Skills& software

* Software Application Programs: Microsoft Office, NetBeans, Microsoft Visual C++, AutoCAD, Textpad, Prolog, FontPage.
* OS: Windows, Ubuntu/Linux, Mac.
* CISCO Packet Tracer / Network distributions & connections.
* Visual studio / visual basic programming.
* Web Applications Designing.
* Programming Languages: Java , C++ , PHP , HTML , AI ’prolog’ , OpenGL C++ , CSS , JavaScript, Matlab, Python .
* Database: Postgres SQL(structured query language), pg admin, power BI, EasyPHP, MYSQL, Microsoft Access, Tableau BI, online program Displayr.
* Machine Learning: Anaconda ‘spider’.
* Image Processing using Matlab.

(I am so comfortable with the above programming languages)

# About Me

* As software engineer and working in the University have helped me to achieve and improve myself every day to learn new programming languages and made me more eager to learn more.
* Working with team
* Swimming, basketball, volleyball, riding a bicycle.
* Playing the guitar and singing.