

FATIMA CAROLINA BDEIR

BSc Computer Science, AUB, Dec 2018. Minor in Creative Writing

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EXPERIENCE

Internship - Artificial Intelligence Developer

Murex

July 2018

Beirut, LEBANON

- Member of a team that developed chatbot applications using Microsoft technologies.
- Implemented unit tests using xUnit and Microsoft Testing Framework, and integration tests.
- Changed the architecture of the bot to the Onion Architecture, then refactored the app and extracted functionality to be deployed as microservices.

Internship - Artificial Intelligence Developer

CardioDiagnostics

June 2018

Beirut, LEBANON

- Research different methods to automate electrocardiogram (ECG) classification using machine learning (neural networks) and feature extraction.
- Training of a neural network that classifies different cardiac arrhythmias by reading 30 second long ECG signals using Python Keras and Tensorflow.

Internship - Information Systems Developer

Murex

Jun-Aug 2017

Beirut, LEBANON

- Reverse engineered a database from given queries run on that database. Obtained column names, primary and foreign keys, and other attributes of the data to build the database using JDBC.

ACADEMIC PROJECTS

ASKI

An Amazon Alexa skill to query AUB course offering.

- Scrapped data from the website of AUB.
- Stored data in NoSQL DynamoDB on AWS cloud.
- Wrote AWS Lambda function written in Javascript using Nodejs

TBear

A mobile application for reporting Tuberculosis Bumps.

- Done with the supervision of the head of family medicine at AUBMC Dr. Ghassan Hamadeh.
- Using the mobile app, the user takes a picture of the bump and sends the information –such as the size- to their doctor for diagnosis.
- Goal is to decrease the congestion in the AUBMC for check ups after 48 hours of administering the Mantoux (or TB) test, and to increase the diagnosis level after facilitating the process.
- Created Lambda functions on AWS in Python that the application could access using the Amazon API Gateway.
- Helped with Image processing done using the OpenCV library.

A MicroJava Compiler

A complete compiler for a small language.

- This project covers all of the phases of a compiler; lexing, parsing and syntax analysis, semantic analysis, and intermediate code generation to compile any code written in MicroJava using ANTLR.

EDUCATION

B.S. in Computer Science. Minor in Creative Writing.

American University of Beirut 3.49 GPA

Dec 2018

ACTIVITIES



Contributor to a book: Arab Women Voice New Realities | Nov 2017

One-chapter contribution to the anthology published by Turning Point.



President and founder of the Harry Potter Club



Treasurer of the Korean Culture Club

Python★★★★★

Java★★★★★

C#★★

C++★

C★★★★

AWS Lambda Function★★★★★

AWS S3★★★★★

AWS EC2★★★★★

AWS DynamoDB★★★★★

Azure ML★★★★

Azure Functions★★★★★

MySQL★★★★★

Oracle PL/SQL★★★★

NoSQL★★★★★

PHP★★★★

Nodejs★★★★★

Linux commands★★★★★

Ajax★★

JQuery★★★★★

HTML5★★★★★

CSS★★★★★

Javascript★★★

Tensorflow★★★

OpenCV★★

Keras★★

LANGUAGES

English. Native

Arabic. Excellent

NATIONALITIES

American

Lebanese