

# Diala Lteif

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## About Me

I am a second year Computer Science Ph.D. student at Boston University seeking an internship for Summer 2021. My research interests are in the field of machine learning and computer vision, and explainable AI. I have been exposed to various applications of machine learning and AI in both the industry and academia.

## Education

<b>Boston University</b> , <i>Boston, Massachusetts, USA.</i> Ph.D. in Computer Science, GPA: 3.80/4.00	<b>Sept 2019 – Present</b>
<b>American University of Beirut</b> , <i>Beirut, Lebanon.</i> BSc in Computer Science, <i>with distinction</i> , major GPA: 4.00/4.00	<b>May 2019</b>
<b>Lycee Patriote High School</b> , <i>Beirut, Lebanon.</i> Lebanese Baccalaureate in Life Sciences, <i>high distinction</i>	<b>June 2016</b>

## Honors and Awards

<b>Grace Hopper Celebration Conference Award</b> , <i>Boston University.</i>	<b>2020</b>
<b>Dean's Honor List</b> , <i>American University of Beirut.</i>	<b>2016-2019</b>
<b>IEEEExtreme Programming Competition.</b> Fifth place over Lebanon in the international 24-hour online IEEEExtreme competition	<b>2017</b>
<b>ACM Lebanese Collegiate Programming Contest 2017</b> , <i>Beirut, Lebanon.</i> First place in the 9th Lebanese Collegiate Programming Contest with fellow AUB students	<b>2017</b>

## Research Experience

<b>Research fellow</b> , <i>Prof. Bryan Plummer, Boston University.</i> Working on cross-layer parameter sharing for efficient on-device machine learning	<b>2020 – Present</b>
<b>Research fellow</b> , <i>Prof. Sarah Adel Bargal, Boston University.</i> Working on explainable AI for resource-efficient anytime inference of convolutional neural networks	<b>2020 – Present</b>

## Industry Experience

<b>Intern</b> , <i>PinPay SAL</i> , Beirut Digital District, Beirut, Lebanon. Worked on Amazon Alexa, Google Assistant services and front-end web development	<b>Aug 2018 – Sept 2018</b>
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## Teaching Experience

<b>Teaching fellow</b> , <i>Boston University</i> , Boston, Massachusetts, USA. o CS330: Introduction to Algorithms (Spring 2020) o CS103: Introduction to Internet Technologies and Web Programming (Fall 2019)	<b>AY 2019-2020</b>
<b>Instructor</b> , <i>Future Developer Summer Camp</i> , American University of Beirut, Beirut, Lebanon. Taught Unity and iOS development to students between the ages 12 and 18	<b>July 2018</b>
<b>Instructor</b> , <i>S.A.S Tutoring Center</i> , Beirut, Lebanon. Taught Biology, Chemistry, and Physics to high school students	<b>Feb 2017 – May 2017</b>

## Selected Graduate Coursework

CS542: Machine Learning  
CS640: Artificial Intelligence

CS535: Complexity Theory

CS552: Operating Systems

CS511: Formal Methods

## Projects

**CS542 Final Project: Image Classification on Covid-19 X-rays, Boston University.** 2020

Implemented binary and multi-class classification using VGG and ResNet backbone architectures in Keras on a Covid-19 X-ray dataset.

**CS640 Final Project: Facial Expression Analysis Based on Videos of Presidential Candidates, Boston University.** 2019

Worked with classmates to extend existing state-of-the-art deep convolutional neural networks for sentiment analysis on video clips of the 2020 Democratic Presidential candidates.

**Undergraduate Final Year Project: Emotion Recognition in an Uncontrolled Environment, American University of Beirut.** 2019

Created an Android Application that predicted users' emotional state based on collected readings from ShimmerV3 Biophysical sensors and user self-assessment

## Skills

### Machine Learning.

Tensorflow, Keras, PyTorch, tensorboard, wandb.ai

### Languages.

Java, C#, C/ C++, Scala, Prolog, Python, Javascript, PHP, HTML5/CSS, SQL

### Dev frameworks.

Angular, Node.js, Ionic3, Unity, Android Studio, Microsoft Visual Studio, .Net

### Database management.

Microsoft SQL Server, SQL Server Management System, PhpMyAdmin

### Networks.

Socket Programming, Wireshark Packet Tracer

### OS.

Linux, Windows

### Cloud.

Amazon Web Services, Microsoft Azure, Alexa Skills Kit

### Management.

Agile, Project and Product Management

## Professional Activities

**Graduate Student Advisor, BU ACM-W student chapter, Boston University.** FY 2020-21  
manage the mentorship program and advocate for full engagement of women in computing and technology

**Treasurer of the Club of Artificial Intelligence, American University of Beirut.** Nov 2017 – May 2018

Cabinet member of the CAI: a club that revolves around Artificial Intelligence, Machine Learning, and Data Mining

**ACM Arab Collegiate Programming Competition 2017, Egypt.** Nov 2017

Competed and teamed with fellow AUB students in the 9th Arab Collegiate Programming Competition and ended up in the 31<sup>st</sup> place in the MENA region out of 104 participating teams

## References

*Available upon request.*