

# Ahmad Hamandi

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## Skills

- Data Science and machine learning researcher
- Software Engineer
- Web Developer
- Programming and Digital Skills Instructor

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## Teaching Experience

2016 – PRESENT

### Assistant Instructor / American University of Beirut

Assistant instructor at the Department of Computer Science at AUB for the following courses:

- Introduction to Programming - Python and Java (Sophomores) – 9 labs
- Web Development and Design (Juniors / Seniors) – 7 labs
- Programming for Digital Arts (Media Students) – 4 labs
- Computer and Programming for Arts (Art Students) – 2 labs
- Introduction to Computing Systems (Sophomores and Juniors) – 2 labs
- Databases (Juniors) – 1 lab
- Mobile Development (Seniors) – 1 lab

2017 – 2019 (5 CYCLES)

### Digital Skills and Web Instructor / United Nations

Digital Skills and Web Instructor for 5 cycles

- More than **540 hours** of pure **teaching**
- Curricula and material preparation
- Focus on Excel and other Microsoft Office Tools (basic to intermediate; word, excel, PowerPoint) internet literacy, computer literacy and photoshop.
- Web Development focuses on frontend web development and intro to WordPress.

2016 – 2018 (3 SUMMERS)

### Instructor / Coordinator Future Developer Summer Camp American University of Beirut

Digital Skills and Web Instructor for 5 cycles

- Teaching web/java coding for school students (10-18 years old)
- Curricula and material preparation from scratch

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## Work Experience

2016 – PRESENT

### Web Developer / Freelance

I provide Web Development Services for startups and companies.

OCT 2017 – MAY 2018

### Android and Software Developer / TecFrac

Built an android application using android studio and built a new website for one of the clients.

JUN 2015 – JAN 2016

### Web Developer / Born Interactive

Worked as Backend Web Developer, developed websites using PHP, semi-customized and fully custom WordPress, fully custom Drupal Templates and Magento.

MAY 2014 – JUL 2014

### Product Engineer (Intern) / Path Solutions

- Worked on web-based financial products
- Participated in daily Scrum meetings
- Developed JSP (Java Server Pages) applications

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## Research Experience

SUMMER 2019 – PRESENT

### Data Science & Machine Learning Thesis / AUB

I am working on the topic of learning from unbalanced datasets using different approaches. My thesis will also contribute to the fields of epidemiology and toxicology.

SEP 2018 – JAN 2019

### Data Science Project – Air Pollution / AUB

Worked on a data science and applied machine learning project in collaboration with the chemistry department at AUB, the aim of the project is to identify air pollutants around AUB.

JAN 2015 – MAY 2015

### Graduation Project – Applied NLP / AUB

Developed a tool that parses data from Wikipedia and displays them in the form of a timeline. The tool categorizes each entity in spatial and temporal context using NLP tools provided by Stanford University.

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## Education

JUN 2020 (EXPECTED)

### **MSc. Computer Science / American University of Beirut**

Focus on Machine Learning and Data Science. GPA 3.2/4.0

JUN 2015

### **BSc. Computer Science / American University of Beirut**

- Best Graduation Project Award
- Dean's honor list
- GPA 3.2/4.0 on Major Courses
- Highlighted courses: Algorithms, Web Development, Databases, Operating Systems, Software Engineering, Data Structure, Intro to Programming

JUL 2012

### **Lebanese Baccalaureate – General Sciences / Ecole des Filles de la Charité Clémenceau - Saint Vincent de Paul**

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## University Projects

**Lylfeline (Senior Project) – Trailer:** <https://youtu.be/mnwPmHltjOs>

A tool that parses data from Wikipedia and displays it in the form of a timeline. The tool categorizes each entity in spatial and temporal form using NLP tools provided by Stanford University.

**Geographical location extractor (Software Engineering Course)**

A tool that detects and highlights location names from a given raw text.

**Store Locator for AUB Students (Databases Course)**

**C# Email sender from Excel**

A tool that reads an excel sheet with different student names and assignments, sends emails for each student in the excel sheet with his/her final grade and grade details.

**GoogleScript (GO) Email sender from Google SpreadSheet**

A tool that reads a Google SpreadSheet with different student names and assignments, sends emails for each student in the SpreadSheet with his/her final grade and grade details, written using GO.

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## Conferences

APR 2016

### **Poster Presentation / AUB 150<sup>th</sup> Anniversary project exhibition / American University of Beirut**

Project Poster Presentation for graduation project.

OCT 2015

## **6<sup>th</sup> International Conference of Digital Archives and Digital Humanities / National Taiwan University / Taipei, Taiwan**

Poster Presentation for graduation project

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### **Honors & Awards**

MAY 2015

#### **Dean's Honor List – Spring 2015 / AUB**

MAY 2015

#### **Best Computer Science Undergraduate Project / AUB**

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### **Volunteering**

2017 – PRESENT

#### **IEEE Lebanon Website Management**

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### **Activities**

I am passionate about cooking, sometimes I create my own recipes, I am planning to open my own cooking blog where I share these recipes with the rest of the world.

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### **References**

Available upon request.