

# Alexandra Barka

FRONT END ENGINEER

Sofokleous 34, Nikaia, Athens, Greece, 18452

☎ (+30) 6949413084 | ✉ barka.alexandra2@gmail.com | 🏠 ale3oula.github.io | 📧 alexabarka@hotmail.com

## Summary

I am a **Front End Engineer** with experience on building software and web applications. I enjoy creating **simple, clean** and **creative** user interfaces using the latest web technologies. I specialize in JavaScript and have professional experience working with Angular 2+. I also have adequate experience working with WPF (C#) and Node.js. Currently, I am focusing on further developing my skills in Angular7 and learning Vue.

## Skills

<b>Web</b>	HTML5, CSS3, JavaScript (ES2015+), TypeScript
<b>JS Frameworks</b>	Angular 2+, Vue.js, Angular Ionic, Devextreme
<b>Other Frameworks</b>	Bootstrap (CSS), Node.JS
<b>Programming</b>	C, C#, JAVA
<b>Applications</b>	Visual Studio Code, IntelliJ
<b>Other</b>	Microsoft Office, Pages, Keynote, Adobe Suite, Figma

## Experience

### UBITECH Ltd.

Athens, Greece

UX ENGINEER

Jul. 2018 - Today

- Working in several projects using several web technologies (Angular 7, Vue.js, HTML, CSS, JavaScript, TypeScript, Thymeleaf). My responsibilities include creating front end components and services by using the best practices and integrating with a REST API.
- Technologies used:** Angular 2+, JavaScript, TypeScript, Thymeleaf, AngularJS, HTML5, CSS3

### Human Computer Interaction Laboratory - ICS FORTH)

Heraklion, Crete

RESEARCH ASSISTANT - UI/UX ENGINEER

Jul. 2015 - Jul. 2018

- Ulnify.** A full stack application (MEAN stack: Mongo.DB, Express.js, Angular 6, Node.js) which acted as a studio for composing flexible web applications in real-time and aggregate all the individual UIs of an intelligent environment by introducing new rich user interface compositions.
- Beantable.** Co-develop an augmented interactive table with multiple games for the Heraklion Public Library of Crete. Used C# and WPF to implement a launcher for the application and re-design various games (e.g. puzzle, classic memory games).
- Arkadi Monastery.** Re-design and develop a mobile application for the Arkadi Museum in Rethimni. Used Actionscript and Adobe Flash Builder to implement a cross-platform application for both Android and iOS. [link]
- Info kiosk.** Co-developed an info kiosk for the Archeological Museum of Crete, which provided information for the Minoan Culture. Developed in C# and WPF the Architecture section and some Utilities.
- Technologies used:** Angular 2+, MEAN stack, WPF, C#, Actionscript, Typescript, Javascript, Node.js HTML/CSS

## Education

### University of Crete, Dpt. of Computer Science

Heraklion, Crete

M.Sc. IN INFORMATION SYSTEMS AND HCI

Feb. 2016 - Nov. 2018

- Grade:** 9.28 / 10
- Coursework included Introduction and advanced topics on HCI, Information Retrieval, DBMS, BPMS and Knowledge Representation and Reasoning. Teaching Assistant in Introduction on HCI (Spring 2018), Modern Topics on HCI (Winter 2017) and Data Structures (2016-2017).
- Thesis Topic:** Ulnify: A Designer Studio for creating UI Mashups for Ambient Intelligence Environments.
- Supervisor:** Stephanidis Constantine

## University of Crete, Dpt. of Computer Science

B.Sc. IN COMPUTER SCIENCE

*Heraklion, Crete*

*Sep. 2011 - Jan. 2016*

- **Grade:** 8.19 / 10
- Coursework included HCI, Web programming, Data Structures, Compilers, Algorithms and Complexity and more. Volunteered as a TA in Computer Organisation and Introduction to C programming course.
- Undergraduate TA in CS-225 - Computer Organization.
- Undergraduate TA in CS-100 - Introduction in Computer Science.
- **Thesis Topic:** Requirements analysis and development of conceptual model of an information system for food traceability
- **Supervisors:** Fountoulaki Irini, Plexousakis Dimitris

## Publications

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### womENCourage 2017 Conference

*Barcelona, Spain*

A UNIFIED INTERACTIVE SYSTEM FOR CONTROLLING A SMART HOME - ALEXANDRA BARKA, ASTERIOS LEONIDIS,

MARGHERITA ANTONA, CONSTANTINE STEPHANIDIS

*Sep. 2016*

- Poster presentation at the ACM-W conference held in Barcelona, Spain
- ACM Scholarship to participate the conference

## Volunteer

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### womENCourage 2017

*Heraklion, Crete*

WEBSITE MANAGEMENT

*Spring 2017*

- Update, adding content and managing ACM - Womencourage website (Wordpress): <https://womencourage.acm.org/2017/>

### Undergraduate Teaching Assistant

*Heraklion, Crete*

CS 100 - INTRODUCTION TO COMPUTER SCIENCE

*Winter 2015*

- Answering questions on the mailing list.
- Co-assist in two tutorials.

### Undergraduate Teaching Assistant

*Heraklion, Crete*

CS 225 - COMPUTER ORGANIZATION

*Spring 2015*

- Answering questions on the mailing list.
- Oral examination of two assignment.
- Marking examination scripts.

## Teaching Assistance

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### Graduate Teaching Assistant

*Heraklion, Crete*

CS 364 - INTRODUCTION TO HUMAN-COMPUTER INTERACTION

*Spring 2017*

- Answering questions on the mailing list.
- Examining course projects
- Marking examinations transcripts

### Graduate Teaching Assistant

*Heraklion, Crete*

CS 469 - MODERN TOPICS IN HUMAN-COMPUTER INTERACTION

*Winter 2017*

- Answering questions on the mailing list.
- Lab course for Web accessibility
- Examining course projects

### Graduate Teaching Assistant

*Heraklion, Crete*

CS 240 - DATA STRUCTURES

*Winter 2016 - Spring 2017*

- Responsible for the website and the web infrastructure of the course.
- Answering questions on the mailing list.
- Marking examinations transcripts

## Graduate Teaching Assistant

CS 240 - DATA STRUCTURES

- Project co-design with another TA.
- Answering questions on the mailing list.
- Marking examinations transcripts

*Heraklion, Crete*

*Spring 2016*

## Languages

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### ENGLISH

2007    **First Certificate in English (B2)**, Cambridge University

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