

Alexandra Barka

FRONT END ENGINEER

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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#), Actionscript, Node.js. Currently, I am focusing on further developing my skills in Angular7 and learning React.js.

Skills

Web	HTML5, CSS3, JavaScript, TypeScript, Node.JS
Frameworks	Angular 2+, Angular Material, Bootstrap, Devextreme
Programming	C, C#, JAVA, ActionScript
Applications	Visual Studio Code, IntelliJ
Other	Microsoft Office, Pages, Keynote, Adobe Suite, Figma

Experience

UBITECH Ltd.

Athens, Greece

UX ENGINEER

Jul. 2018 - Today

- My role is to write front end components in various languages (depending the project) as well as design user interfaces.
- **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.** Developed with MEAN (Mongo.DB, Express.js, Angular 6, Node.js) stack to build a full stack application 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
- Graduate TA in CS-240 - Data Structures (3 semesters)
- Graduate TA in CS364: Introduction to HCI
- Graduate TA in CS469: Modern topics in HCI
- **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
- 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

womENCourage 2017 Conference

Barcelona, Spain

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

Sep. 2016

MARGHERITA ANTONA, CONSTANTINE STEPHANIDIS

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

Volunteer

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

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

ENGLISH

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

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