

# Christina Zacharoula Chaniotaki

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## Education

### University of Southern California (USC)

Los Angeles, California

PH.D. IN COMPUTER SCIENCE

Aug 2023 – present

- GPA: 3.65
- Research Interests: Software Engineering, Software Testing, Web Services.
- Advisor: Prof. William G.J. Halfond.

### Athens University of Economics and Business (AUEB)

Athens, Greece

MSC IN INFORMATION SYSTEMS

Oct 2019 – Jan 2022

- GPA: 3.5 (8.74/10) – "Distinction."
- Thesis: "An Empirical Investigation of Boilerplate Code," supervised by Prof. Diomidis Spinellis.

### Athens University of Economics and Business (AUEB)

Athens, Greece

BSC IN MANAGEMENT SCIENCE AND TECHNOLOGY

Sep 2014 – Oct 2018

- GPA: 3.71 (9.28/10) – Ranked 1<sup>st</sup> of 54 students in cohort.
- Major: Software Engineering and Data Science.
- Thesis: "DNA – Distributed Network Architecture," co-authored with Konstantinos Kopanidis and supervised by Prof. Panos Louridas, Prof. George Xylomenos and, asst. Prof. Dimitris Mitropoulos.

## Professional Experience

### University of Southern California (USC)

Los Angeles, California

GRADUATE TEACHING ASSISTANT (PART-TIME)

Aug 2023 – present

- Spring 2024: CSCI 310 - Software Engineering, Prof. William G.J. Halfond: Maintaining grade records, overseeing the regrading processes, peer evaluation, returning grades, and preparing and presenting a lecture about Security.
- Fall 2023, 2024: CSCI 530 - Security Systems, Prof. Clifford Neuman: Answering questions regarding lectures and assignments, grading assignments and exams, and holding office hours.

### European Banking Authority (EBA)

Paris, France

SENIOR SOFTWARE ENGINEER (FULL-TIME)

Feb 2023 – Jun 2023

- Anti-money Laundering Platform: Maintenance and development of the web application.
- Egate: Maintenance and development of the Competent Authorities Notification system.
- **Tech Skills:** Java, Angular, Docker, MongoDB, CSS.

### APINTECH

Limassol, Cyprus

SENIOR SOFTWARE ENGINEER (FREELANCE)

Feb 2023 – Jun 2023

- UtilAI: Architecture design, implementation, and development of a web platform for managing energy facilities of buildings.
- **Tech Skills:** JavaScript, Java, Angular, Quarkus, Docker, TypeScript, Figma, Minio, Elastic, SQL, CSS, HTML5, Python.

### UBITECH LTD

Athens, Greece

SENIOR SOFTWARE ENGINEER (FULL-TIME) - TEAM LEADER

Jun 2022 – Feb 2023

- ResearchHUB: Design, implementation, and development of a web platform that aggregates data for research projects in the United Arab Emirates.
- eu-LISA: Graphical design and development of the Greek Entry-Exit System for border control.
- Vikelaia Audiovisual: Development of the website that houses a collection of Cretan culture.
- **Tech Skills:** Quarkus, Angular, Docker, Elastic, MongoDB, Vue.js, Minio, Figma, Node.js, SQL, CSS.

### UBITECH LTD

Athens, Greece

SENIOR SOFTWARE ENGINEER (FULL-TIME)

Aug 2020 – Jun 2022

- Dehems: Graphical design, implementation, and development of a platform for monitoring patient records and experiments on HIV or COVID blood samples.
- Kampos Chiou: Development of the website that presents a historical region in Chios.
- Co-Museum: Re-development of the website that hosts international conferences for Benaki Museum.
- Infinitech: Development of a PoC for a Consent Management System for Banking Services.
- **Tech Skills:** Spring-boot, Quarkus, Angular, Docker, Elastic, Vue.js, Minio, Figma, SQL, MongoDB, CSS.

## UBITECH LTD

Athens, Greece

### SOFTWARE ENGINEER (FULL-TIME)

Nov 2018 – Aug 2020

- ICARUS: Design and development of the back-end system and the desktop application for an aviation industry-sensitive data processing and marketplace platform.
- SPIDER 5G Cyber Range: Design the graphical interface of the training platform.
- DESTINY: Design the graphical interface of the platform that handles digital medical processing.
- **Tech Skills:** Spring-boot, Angular, Docker, Elastic, MongoDB, Minio, Figma, Node.js, SQL, CSS, WordPress.

## Oracle

Athens, Greece

### BACK-END DEVELOPER (CONTRACTOR)

Summer 2018

- Maintenance and development of the back-end system for managing billing and user information in the Hellenic Telecommunications Organisation.
- **Tech Skills:** Java EE, OracleDB, Web Services.

## Cardlink

Athens, Greece

### FULL STACK WEB DEVELOPER (INTERN)

Spring 2018

- Cardlink Pulse: Design, implementation, and development of the Analytics Platform for managing data and information of merchant e-shop businesses.
- **Tech Skills:** MEAN stack (Angular, MongoDB, Node.js), Docker, Python.

## Quintessential SFT

Athens, Greece

### SOFTWARE ENGINEER (FREELANCE)

Aug 2017 – Jul 2019

- Cardlink Chatbot: Development of a customer support service chatbot.
- Cloudnous: Development of a Cloud-Based SaaS billing analytics platform.
- GAMS Visualization: Development of a platform for excel data visualization.
- **Tech Skills:** MEAN stack (Angular, MongoDB, Node.js), Docker, Chatbot (MS Bot Framework).

## BUTLAIR - Doobear

Athens, Greece

### JUNIOR BACK-END DEVELOPER (FREELANCE)

Feb 2017 – Mar 2018

- BUTLAIR: Design and development of the back-end system.
- Doobear: Development of a voice application based on Amazon Alexa.
- **Tech Skills:** JavaScript, Node.js, SQL, MongoDB, Express.js, Flask Ask, Alexa Skill Kit, Python.

## Peoplecert

Athens, Greece

### TRAINING ASSISTANT AT 2<sup>nd</sup> CODING BOOTCAMP (PART-TIME)

Apr 2017 – Jul 2017

- Assisting students with issues and questions related to web development technologies.
- **Tech Skills:** HTML5, CSS3, Java, JSP, Bootstrap, Servlets, Git, JavaScript, jQuery.

## Freelance

Athens, Greece

### WEB DEVELOPER

Oct 2015 – Dec 2016

- Design and development of static websites.
- **Tech Skills:** WordPress, HTML5, CSS3.

## Research Experience

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### Software Quality Lab (SQL), USC

Los Angeles, California

#### RESEARCH ASSISTANT (PART-TIME)

Aug 2023 – present

- Advisor: Prof. William G.J. Halfond.

### BALab, AUEB

Athens, Greece

#### RESEARCH ASSISTANT (PART-TIME)

Feb 2021 – Jun 2023

- Laboratory focused on software, systems, methods, and practices.
- Led an empirical investigation on Boilerplate Code, with Vaggelis Atlidakis, Zoe Kotti, Aggeliki Papadopoulou, George Liargovas, and Prof. Diomidis Spinellis.

### Centre of Planning and Economic Research

Athens, Greece

#### RESEARCH ASSISTANT (FULL-TIME)

Jun 2015 – May 2016

- Econometric analysis, on elements of the country's workers using STATA tool from 2008–2015, supervisor: Prof. P. Prodromidis.

## Management Science a Technology (DMST)

Athens, Greece

PARTICIPANT (PART-TIME)

Oct 2014 – May 2015

- Development of mathematical methods using Matlab to solve Numerical and Systems Equations. Supervised by Prof. P. Lappas.

## Publications

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### JOURNALS

- J1 N.D. Sakkas, S. Yfanti, P. Shah, N. Sakkas, **C. Chaniotakis**, C. Daskalakis, M. Domnich, E. Barbu. “*Explainable approaches for forecasting building electricity consumption.*” Published at Multidisciplinary Digital Publishing Institute - Energies (2023).

### CONFERENCE PUBLICATIONS

- C1 N. Sakkas, **C. Chaniotaki**, N. Sakkas, C. Daskalakis. “*Building data models and data sharing. Purpose, approaches, and a case study on explainable demand response.*” Published at Emerging Concepts for Sustainable Built Environments (SBEFIN 2022).
- C2 **C. Chaniotaki**, P. Prodromidis. “*The trade sector and regions that displayed an increase in employment during the recession (2008–2015).*” Presented at the 19<sup>th</sup> Scientific Conference of the Association of Greek Regionalists (2016).
- C3 P. Lappas, E. Kritikos, **C. Chaniotaki**, C.T. Lardopoulou, and A. Gotsi. “*An Educational Scenario in the context of Scientific Process: Numerical Solution of Equations and Systems of Equations using Cognitive Tools.*” Presented at the 12<sup>th</sup> Department of Management Science and Technology (DMST) Student Conference (2015).

## Teaching Experience

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### University of Southern California (USC)

Los Angeles, California

INSTRUCTOR

Mar 2024

- One-hour lecture about “Security from Implementation Perspective” in the course CSCI 310: Software Engineering under the supervision of Prof. William G.J. Halfond in a class of 200 students.

### Redondo Union High School

Redondo Beach, California

INSTRUCTOR

Oct 2023

- From Greece to Los Angeles: My Journey

### Freelance

Athens, Greece

TUTOR

Sept 2018 – May 2023

- Learning programming and mathematics for high school and master students.

### Tech Connect - AUEB

Athens, Greece

INSTRUCTOR

Feb 2022 & Feb 2023

- One-hour technical training session on “Building web applications with Java and React.”

### UBITECH LTD

Athens, Viti, and Kalavrita, Greece

INSTRUCTOR

Nov 2021, Feb 2020, and Feb 2019

- Three-hour seminar session on “Angular Framework Architecture, Structure, and Best Practises with examples.”
- One-hour seminar for “Design Patterns.”
- One-hour seminar session on “Chatbots.”

### Department of Management Science and Technology (DMST), AUEB

Athens, Greece

GUEST-LECTURE

Spring 2018 & 2019

- Four four-hour lectures on how to “Design a Mobile App From Scratch” under the supervision of Prof. George Lekakos in a class of 100 students.
- Content creator of the assignment.
- Answering questions and help students with their assignments.

### Scientific Technology Conference from IEEE Student Branch

Lamia, Greece

INSTRUCTOR

Dec 2018

- One-hour seminar session on “How to Create a Cloud Application with Firebase and Angular.”

### Management Science and Technology Conference (DMST), AUEB

Athens, Greece

INSTRUCTOR

Feb 2017

- One-hour workshop session on “How to create an Alexa Skill.”

## Coding BootCamp - Athens Center for Entrepreneurship & Innovation (ACEin)

Athens, Greece

### INSTRUCTOR

Oct 2016

- One-hour workshop on “What are the neural networks.”

## Honors and Awards

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### Ph.D. in Computer Science, USC

Los Angeles, USA

#### FUNDING

2023 – 2027

Research or Teaching Assistantship.

### MSc in Information Systems, AUEB

Athens, Greece

#### SCHOLARSHIP

2019

50% paid tuition for the top student admitted in the cohort.

### Central Hackathon

Lamia, Greece

#### 1<sup>st</sup> PLACE WINNER

2018

It was a competition for creating pilot applications for Smart Cities or Public Administrators. It involved 14 teams with 51 developers. In two days, my colleagues and I developed Logit, an app for tracking and managing urban infrastructure issues, such as water and energy development. It also provided public access to data, to inform citizens about city issues.

### Start-Up/Scale-Up Greece Awards by Philip Morris International

Athens, Greece

#### INNOVATIVE PRODUCT/SERVICE

2017

Doobear, an audio social network, allowed users to record and share their voices with followers. We were awarded for the innovation of the idea.

### Department of Management Science and Technology

Athens, Greece

#### AWARD FOR EXCELLENT ASSIGNMENT IN ALGORITHMS AND DATA STRUCTURES BY PROF. P. LOURIDAS

2016

In a class comprising 100 students, I, along with four other students, received an award in recognition of our performance on a bonus assignment.

## Certifications

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2021

**Software Developer Skills with Java**, PeopleCert

Athens, Greece

## Professional Service

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### Mining Software Repositories (MSR) 2023

Athens, Greece

#### JUNIOR PROGRAM COMMITTEE (PC)

2023

I was in charge of reviewing two research papers in the field of Code Cloning.

### Panorama of Entrepreneurship and Career

Athens, Greece

#### BACK END DEVELOPER

2016 – 2018

Along with fellow volunteers, we developed and maintained the backend service for Business Days submissions.

### 2<sup>nd</sup> Coding Bootcamp for Students, ACEin

Athens, Greece

#### CONTENT AND SUBJECT CREATOR

2016

I held the responsibility of theme selection, crafting and presenting an introductory presentation for the bootcamp, outlining the categories, and coordinating the organization of workshops.

## Skills

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**Programming Languages:** Java, JavaScript, Typescript, Python, HTML5, CSS3, JSP, jQuery, R,  $\LaTeX$ .

**Frameworks; Libraries:** Spring-Boot, Quarkus, Angular, Vue.js, MEAN Stack, RESTful API, Chatbots (BotBuilder), Electron.js, Minio, Hibernate, Maven, NPM.

**Databases:** SQL, MySQL, MSSQL, Postgres, OracleDB, MongoDB, Redis.

**Other:** Node.js, Docker, Git, Alexa Skill, Matlab, WordPress, Firebase, Elastic, Solr, Nginx.

**Other Skills:** Code Review, Debugging, Testing, User Experience/User Interface (UX/UI), Figma.

**Languages:** Greek (Native), English (fluent oral and writing), Spanish (A1 - Basic words and phrases only).