# Christina Zacharoula Chaniotaki

□+1 (213)-255-0949 | Sechaniot@usc.edu | Acchaniotaki.github.io | Christina-chaniotaki | Los Angeles, California

# **Education**

## **University of Southern California (USC)**

Los Angeles, California

Ph.D. IN COMPUTER SCIENCE

Aug 2023 - present

• **GPA:** 3.66

• Research Interests: Program Analysis, 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 48 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, 2025:** 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 and development of the 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 - Doobbear Athens, Greece

JUNIOR BACK-END DEVELOPER (FREELANCE)

Feb 2017 - Mar 2018

- BUTLAIR: Design and development of the back-end system.
- Doobbear: 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

• Tech Skills: WordPress, HTML5, CSS3.

# Research Experience \_

#### Software Quality Lab (SQL), USC

Los Angeles, California

RESEARCH ASSISTANT (PART-TIME)

Aug 2023 – present

- Research area: Program Analysis, Software Engineering, Web Accessibility, Software Testing, Web Services.
- Advisor: Prof. William G.J. Halfond.

BALab, AUEB Athens, Greece

• Research area: Boilerplate code, Code cloning, Clone detection, Boilerplate survey, Categorization.

• Advisor: Prof. Diomidis Spinellis.

RESEARCH ASSISTANT (PART-TIME)

### **Centre of Planning and Economic Research**

Athens, Greece

RESEARCH ASSISTANT (FULL-TIME)

Jun 2015 - May 2016

Feb 2021 - Jun 2023

• 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**

#### **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**

### **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, Vitina, 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 helping 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

INSTRUCTOR

Feb 2017

• One-hour workshop session on "How to create an Alexa Skill."

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

Athens, Greece

• One-hour workshop on "What are the neural networks."

Oct 2016

# **Honors and Awards**

Ph.D. in Computer Science, USC

Los Angeles, California

FUNDING

2023 - 2027

Research or Teaching Assistantship.

Ph.D. in Computer Science, USC

Los Angeles, California

**SCHOLARSHIP** 

\$5,000 from Gerondelis Foundation. **MSc in Information Systems, AUEB** 

Athens, Greece

2024

**SCHOLARSHIP** 2019

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

**Central Hackathon** Lamia, Greece

1st 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

Doobbear, 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**

Software Developer Skills with Java, PeopleCert 2021

Athens, Greece

# **Professional Service**

#### 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

Programming Languages: Java, JavaScript, Typescript, Python, HTML5, CSS3, JSP, jQuery, R, ET<sub>F</sub>X.

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

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

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