

Christina Zacharoula Chaniotaki

☎ +1 (213)-255-0949 | ✉ cchaniot@usc.edu | 🏠 cchaniotaki.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:** 3.67. **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 (DMST)

Sep 2014 – Oct 2018

- **GPA:** 3.71 (9.28/10) – Ranked 1st of 48 students in cohort. **Major:** Software Engineering and Data Science.

Professional Experience

Amazon

New York City, New York

APPLIED SCIENTIST II (INTERN)

May 2025 – present

- Part of the AWS Proactive Security Detective Tooling team.
- **Tech Skills:** Java, Program Analysis, LLMs, APIs.

University of Southern California (USC)

Los Angeles, California

GRADUATE TEACHING ASSISTANT (PART-TIME)

Aug 2023 – May 2025

- **Spring 2024, 2025:** CSCI 310 - Software Engineering, Prof. William G.J. Halfond.
- **Fall 2023, 2024:** CSCI 530 - Security Systems, Prof. Clifford Neuman.

GRADUATE RESEARCH ASSISTANT (PART-TIME)

- **Summer 2024:** Working on an Empirical study for Web Accessibility, with Dr. Paul Chiou and Prof. William G.J. Halfond.

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.

UBITECH LTD

Athens, Greece

SENIOR SOFTWARE ENGINEER (FULL-TIME) - TEAM LEADER

Jun 2022 – Feb 2023

- **ResearchHUB:** Design, implementation, and development of a platform that aggregates data for research projects in the UAE.
- **eu-LISA:** Graphical design and development of the Greek Entry-Exit System for border control.
- **Tech Skills:** Quarkus, Angular, Docker, Elastic, MongoDB, Vue.js, Minio, Figma, Node.js, SQL, CSS.

SENIOR SOFTWARE ENGINEER (FULL-TIME)

Aug 2020 – Jun 2022

- **Dehems:** Graphical design and development of a platform for monitoring patient records and experiments on HIV blood samples.
- **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.

SOFTWARE ENGINEER (FULL-TIME)

Nov 2018 – Aug 2020

- **ICARUS:** Design and development of the platform for an aviation industry-sensitive data processing and marketplace platform.
- **Tech Skills:** Spring-boot, Angular, Docker, Elastic, MongoDB, Minio, Figma, Node.js, SQL, CSS, WordPress.

Oracle

Athens, Greece

BACK-END DEVELOPER (CONTRACTOR)

Summer 2018

- Development of the back-end system for managing 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 a platform for managing data of merchant e-shop businesses.
- **Tech Skills:** MEAN stack (Angular, MongoDB, Node.js), Docker, Python.

Quintessential SFT

SOFTWARE ENGINEER (FREELANCE)

Athens, Greece
Aug 2017 – Jul 2019

- **Cardlink Chatbot:** Development of a customer support service chatbot.
- **Cloudnouns:** 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).

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.

Publications

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 (MDPI) - Energies (2023).

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).

C. Chaniotaki, P. Prodromidis. “*The trade sector and regions that displayed an increase in employment during the recession (2008–2015).*” Presented at the 19th Scientific Conference of the Association of Greek Regionalists (2016).

P. Lappas, E. Kritikos, **C. Chaniotaki**, C.T. Lardopoulou, 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 12th 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.

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.

Honors and Awards

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| 2023-2027 | Funding - Research or Teaching Assistantship , Ph.D. in Computer Science, USC | Los Angeles, CA |
| 2024 | Scholarship - \$5,000 from Gerondelis Foundation , Ph.D. in Computer Science, USC | Los Angeles, CA |
| 2019 | Scholarship - 50% tuition , MSc in Information Systems, AUEB | Athens, Greece |
| 2018 | 1st place winner , Central Hackathon | Lamia, Greece |

Professional Service

2023 **Junior Program Committee (PC)**, Mining Software Repositories (MSR) 2023

Athens, Greece

Skills

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, Soot, ANTLR.

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).