

Christina Zacharoula Chaniotaki

Personal Information

Preferred name	Christina Chaniotaki	Location	Los Angeles, California
Email	cchaniot@usc.edu	Languages	Greek (Native), English
Mobile	+1 (213)-255-0949	Social Links	  

Education

University of Southern California (USC).

Aug 2023 – **Ph.D. in Computer Science.**

present ▶ Research Interests: Software Engineering, Software Testing, Web Services.

Athens University of Economics and Business (AUEB).

Oct 2019 – **MSc in Information Systems, GPA: 8.74/10 – "Distinction".**

Jan 2022 ▶ Thesis: *"An Empirical Investigation of Boilerplate Code,"* supervised by Prof. Diomidis Spinellis.

Sep 2014 – **BSc in Management Science and Technology, GPA: 9.28/10.**

Oct 2018 ▶ Ranked 1st of 54 students in my 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

Aug 2023 – **Graduate Teaching Assistant (Part-time), University of Southern California (USC),** Los Angeles, California.

present ▶ Course: CSCI 530 - Security Systems, Prof. Clifford Neuman.

Feb 2023 – **Senior Software Engineer (Full-time), European Banking Authority (EBA),** Paris, France.

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.

Feb 2023 – **Senior Software Engineer (Freelance), APINTECH,** Limassol, Cyprus.

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.

Jun 2022 – **Senior Software Engineer (Full-time) - Team Leader, UBITECH LTD,** Athens, Greece.

Feb 2023 ▶ ResearchHUB: Design, implementation, and development of a 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.

Aug 2020 – **Senior Software Engineer (Full-time), UBITECH LTD,** Athens, Greece.

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.

▶ Infinites: Development of a PoC for a Consent Management System for Banking Services.

▶ Tech Skills: Spring-boot, Quarkus, Angular, Docker, Elastic, Vue.js, Minio, Figma, Node.js, SQL, MongoDB, CSS.

- Nov 2018 – **Software Engineer (Full-time)**, *UBITECH LTD*, Athens, Greece.
- 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, Solr, MongoDB, Minio, Figma, Node.js, SQL, CSS, WordPress.
- Summer 2018 **Back-end Developer (Contractor)**, *Oracle*, Athens, Greece.
- ▶ Maintenance and development of the back-end system for managing billing information in the Hellenic Telecommunications Organisation.
 - ▶ Tech Skills: Java EE, OracleDB, Web Services.
- Spring 2018 **Full Stack Web Developer (Intern)**, *Cardlink*, Athens, Greece.
- ▶ 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.
- Aug 2017 – **Software Engineer (Freelance)**, *Quintessential SFT*, Athens, Greece.
- Jul 2019
- ▶ Cardlink Chatbot: Development of a customer support service chatbot.
 - ▶ Cloudnious: 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).
- Feb 2017 – **Junior Back-end Developer (Freelance)**, Athens, Greece.
- 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.
- Apr 2017 – **Training Assistant at 2nd Coding Bootcamp (Part-time)**, *Peoplecert*, Athens, Greece.
- Jul 2017
- ▶ Assisting students with issues and questions related to web development technologies.
 - ▶ Tech Skills: HTML5, CSS3, Java, JSP, Bootstrap, Servlets, Git, JavaScript, jQuery.
- Oct 2015 – **Web Developer (Freelance)**, Athens, Greece.
- Dec 2016
- ▶ Design and development of static websites.
 - ▶ Tech Skills: WordPress, HTML5, CSS3.

Research Experience

- Aug 2023 – **Research Assistant (Part-time)**, *Software Quality Lab (SQL)*, USC, Los Angeles.
- present
- ▶ Advisor: Prof. William G.J. Halfond.
- Feb 2021 – **Research Assistant (Part-time)**, *BALab, AUEB*, Athens.
- 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.
- Jun 2015 – **Research Assistant (Full-time)**, *Centre of Planning and Economic Research*, Athens.
- May 2016
- ▶ Econometric sectoral analysis, on elements of the country's workers using STATA tool from 2008–2015, under the supervision of Prof. P. Prodromidis.
- Oct 2014 – **Participant (Part-time)**, *Management Science a Technology (DMST)*, Athens.
- May 2015
- ▶ Development of mathematical methods using Matlab to solve Numerical Equations and Systems Equations. Supervised by Prof. P. Lappas.

Publications

- Sep 2023 Nikos D Sakkas, Sofia Yfanti, Pooja Shah, Nikitas Sakkas, Christina Chaniotakis, Costas Daskalakis, Marharyta Domnich, Eduard Barbu. “Explainable approaches for forecasting building electricity consumption.” Accepted at MDPI-Energies.
- Nov 2022 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 SBEFIN.

- May 2016 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 Association of Greek and Regional.
- May 2015 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 12th DMST Student Conference.

Teaching & Training

- Feb 2022 & Feb 2023 Training-session: One-hour technical training session on "Building web applications with Java and React", *Tech Connect*, Athens, Greece.
- Nov 2021 Seminar: Three-hour seminar session on "Angular Framework Architecture, Structure, and Best Practises with examples", *UBITECH LTD*, Athens, Greece.
- Feb 2020 Seminar: One-hour seminar for "Design Patterns", *UBITECH LTD*, Vitina, Greece.
- Spring 2018 & 2019 Guest-lecture: Four four-hour lectures on how to "Design a Mobile App From Scratch" under the supervision of Prof. George Lekakos, DMST, AUEB, Athens, Greece.
- Feb 2019 Seminar: One-hour seminar session on "Chatbots", *UBITECH LTD*, Kalavrita, Greece.
- Dec 2018 Seminar: One-hour seminar session on "How to Create a Cloud Application with Firebase and Angular", Scientific Technology Conference from IEEE Student Branch, Lamia, Greece.
- Feb 2017 Seminar: One-hour seminar session on "How to create an Alexa Skill", 14th Student Conference, DMST, Athens, Greece.
- Oct 2016 Workshop: One-hour workshop on "What are the neural networks", *ACEin*, Athens, Greece.

Community Service

- Dec 2022 Junior PC member at Mining Software Repositories (MSR) 2023.

Honors & Awards

- 2023 Four years funding: Research or Teaching Assistantship, *Ph.D. in Computer Science, USC*.
- 2019 Scholarship for the top student admitted to class, *MSc in Information Systems, at AUEB*.
- 2018 1st place winner - The development of pilot applications and services for Smart Cities or Public Administrator, *Central Hackathon*.
- 2017 Innovative Product/Service, *Start-Up/Scale-Up Greece Awards by Philip Morris International*.
- 2016 Award for Excellent Assignment in Algorithms and Data Structures course by Prof. P. Louridas.

Certifications

- 2021 Software Developer Skills with Java, *PeopleCert, Athens, Greece*.

Programming skills

- Languages: Java, JavaScript, Typescript, Python, HTML5, CSS3, JSP, jQuery, R.
- Frameworks; Spring-Boot, Quarkus, Angular, Vue.js, MEAN Stack, RESTful API, Chatbots (BotBuilder),
- Libraries: 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.
- Design: User Experience/User Interface (UX/UI), Figma.

Volunteering

- 2016-2018 **Back End Developer**, *Panorama of Entrepreneurship and Career*, Athens, Greece.
- 2016 **Content and Subject Creator**, 2nd *Coding Bootcamp for Students*, Athens, Greece.
- 2016 **Session Coordination**, 6th *Panorama of Entrepreneurship and Career*, Athens, Greece.
- 2015 **Session Coordination**, *The Centre of Planning and Economic Research*, Kylini, Greece.