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	🌐 ⌂ in

Education

University of Southern California (USC).

Aug 2023 – present
Ph.D. in Computer Science.
- ▸ Research Interests: Software Engineering, Software Testing, Web Services.

Athens University of Economics and Business (AUEB).

Oct 2019 – Jan 2022
MSc in Information Systems, *GPA: 8.74/10 – "Distinction"*.
- ▸ Thesis: *"An Empirical Investigation of Boilerplate Code,"* supervised by Prof. Diomidis Spinellis.

Sep 2014 – Oct 2018
BSc in Management Science and Technology, *GPA: 9.28/10*.
- ▸ 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 – present
Graduate Teaching Assistant (Part-time), *University of Southern California (USC)*, Los Angeles, California.
- ▸ Course: CSCI 530 - Security Systems, Prof. Clifford Neuman.

Feb 2023 – Jun 2023
Senior Software Engineer (Full-time), *European Banking Authority (EBA)*, Paris, France.
- ▸ 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 – Jun 2023
Senior Software Engineer (Freelance), *APINTECH*, Limassol, Cyprus.
- ▸ 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 – Feb 2023
Senior Software Engineer (Full-time) - Team Leader, *UBITECH LTD*, Athens, Greece.
- ▸ 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 – Jun 2022
Senior Software Engineer (Full-time), *UBITECH LTD*, Athens, Greece.
- ▸ 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, Node.js, SQL, MongoDB, CSS.

Nov 2018 – Aug 2020	**Software Engineer (Full-time)**, *UBITECH LTD*, Athens, Greece. ▸ 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 – Jul 2019	**Software Engineer (Freelance)**, *Quintessential SFT*, Athens, Greece. ▸ 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).
Feb 2017 – Mar 2018	**Junior Back-end Developer (Freelance)**, Athens, Greece. ▸ 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 – Jul 2017	**Training Assistant at 2nd Coding Bootcamp (Part-time)**, *Peoplecert*, Athens, Greece. ▸ Assisting students with issues and questions related to web development technologies. ▸ Tech Skills: HTML5, CSS3, Java, JSP, Bootstrap, Servlets, Git, JavaScript, jQuery.
Oct 2015 – Dec 2016	**Web Developer (Freelance)**, Athens, Greece. ▸ Design and development of static websites. ▸ Tech Skills: WordPress, HTML5, CSS3.

Research Experience

Aug 2023 – present	**Research Assistant (Part-time)**, *Software Quality Lab (SQL), USC*, Los Angeles. ▸ Advisor: Prof. William G.J. Halfond.
Feb 2021 – Jun 2023	**Research Assistant (Part-time)**, *BALab, AUEB*, Athens. 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 – May 2016	**Research Assistant (Full-time)**, *Centre of Planning and Economic Research*, Athens. ▸ 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 – May 2015	**Participant (Part-time)**, *Management Science a Technology (DMST)*, Athens. ▸ 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; 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.

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.