Ioannis **Tzortzakis**

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Summary

I am a Software Engineer who loves to code and learn new skills. I consider myself a responsible team player with an open-minded approach to problem-solving. My goal is to expand my skill set and make contributions to the field of Computer Science.

Education

Computer Science Department, University of Crete   *Heraklion, Crete, Greece*
BSc in Computer Science   *Sep. 2019 - Currently*

- Project 'Alpha' Compiler: Implemented a Compiler for a custom language 'Alpha' written in C. The project consisted of 4 phases, lexical analysis, syntactical analysis, intermediate code generation, and final code generation.
- Project 'Search a Movie!' (Information Retrieval): Information Retrieval project utilizing Python flask backend, Whoosh Library for IR, frontend using HTML, CSS, and Kaggle Dataset.
- Project 'CCC' (Credit Card Company): Designed and implemented a system in JAVA and SQL that automates a portion of processes in the context of a Credit Card Company.
- Project 'E-Eat' (HCI): Implemented the Front-end for an online table-reservation site, following HCI principles (Human-Computer Interaction), using the tool FIGMA.
- Project 'E-Libraries': Implemented the Front-end and Back-end for a site, in HTML, CSS (Bootstrap), Javascript, JSP, and JAVA Servlets.
- Project 'MicroTCP': Implemented a library that provides a simple TCP protocol (utilizing the available UDP protocol).
- Project 'Amphipolis': Created a GUI in JAVA applying various programming techniques (MVC- Model View Controller.
- Project 'Among Us': Developed the back-end for the popular game 'Among Us' utilizing (Stacks, Lists, Trees, and Hash Tables) in C++.

Work Experience

ICS-FORTH   *Heraklion, Crete*
Junior Software Engineer   *Jan. 2019 - Feb. 2019*

- Introduced to a computer vision project that involved analyzing images of water droplets under vacuum conditions. The images were processed using edge detection algorithms, and we then created a mesh using the 3D models and extracted results from the produced .xyz file.

Freelance   *Heraklion, Crete*
Web Developer/Designer   *Jun. 2023*

- I decided to make my own website and dive into web development to learn more about this interesting area and obtain real-world experience.

Skills

Programming	C, C++, Java, Python
Back-end	PHP, Java Servlets, JSP
Front-end	HTML, CSS-Bootstrap, Javascript
Other Skills	Organization and Time Management, Problem-Solving, Dependable and Responsible, Self-Motivated
Languages	Greek - Native speaker, English - C2 degree