

Nikos Lefakis

Heraklion, Crete | [LinkedIn](#) | [Github](#) | lefnick@gmail.com | +306986702647

EDUCATION

University of Crete

Graduate Student at Computer Science Department

Heraklion, Crete

2020-2025

LEADERSHIP EXPERIENCE

IgemCrete

Member of Dry Lab

Heraklion, Crete

November 2022 – October 2023

- Contributed to the Synthetic Biology group igem uniCRETE, assisting with the development and design of the official site for an international competition.. [[Site](#)]

PROJECTS

Although I have not yet gained formal work experience, I am enthusiastic about applying my skills in a professional environment. Through a range of academic projects, I have built a solid foundation in software and web development as well as UI/UX design, including:

Electric Vehicle Rental Information System (2024)

- Developed a management system for electric vehicle rentals with a user interface utilizing **HTML**, **CSS**, and **JavaScript**, integrated with a **MySQL database** for data storage and retrieval.
- Implemented functionalities such as reservations, availability tracking, and user account management, using **SQL commands** for efficient data handling and queries. [[Project Link](#)]

C++ DSL for Pokémon Battle Simulation (2024)

- Designed a **Domain-Specific Language (DSL)** in C++ to simulate Pokémon battles, incorporating skill management, statistics, and strategic decision-making.
- Utilized advanced C++ features such as **macros**, **operator overloading**, **preprocessors**, and **C++11 initializers** to enhance the DSL's functionality. [[Project Link](#)]

Job-Seeking Platform UI/UX Design (2024)

- Created a user-friendly **UI/UX prototype** for a job-seeking platform using **Figma**, emphasizing intuitive navigation and accessibility.
- Conducted user testing, including **pilot evaluations** and feedback sessions with four participants, to iteratively refine the design. [[Project Link](#)]

Alpha Language Compiler Project (2023)

- Developed a **compiler for the Alpha programming language**, performing **lexical and syntactical analysis** to support proper code compilation.
- Built a **virtual machine** to execute the compiled code, deepening my knowledge of compiler design and language implementation principles.

Web Development for E-library (2023)

- Designed and implemented a full-stack **e-library platform** with technologies like **HTML**, **JavaScript**, **AJAX**, **Java Servlets**, **CSS**, **REST APIs**, and **JSP**, ensuring seamless user experience and functionality.
- Added role-based features for administrators, librarians, registered users (students), and visitors, with additional tools like **map visualization APIs** for enhanced interactivity. [[Project Link](#)]

LensHub: Platform for buying, renting, and trading photography equipment with a stolen equipment tracking system. (2025)

- Developed a **full-stack platform** for managing and exchanging photography equipment, featuring a stolen equipment detection system to enhance security. Users can upload, sell, rent, or trade gear, and verify items to check if they are stolen before completing transactions.
- Built with **React.js** for a dynamic and responsive frontend, styled with **CSS** for an intuitive user interface. while **PHP & MySQL** handle backend logic and database management. Deployed locally using **XAMPP** & **Node.js**, with seamless communication between components via **RESTful APIs**. Used **Docker**, **Git**, and **GitHub** for **development and code management**, ensuring version control and collaboration.

SKILLS & INTERESTS

- **Programming Languages and Tools:** C, C++, Java, HTML/CSS, JavaScript, MATLAB/Octave, R, Python, PHP, React.js, Angular.js, Node.js, Bootstrap, Figma, Docker, Git, Algorithms
- **Databases:** MySQL.
- **Languages:** English , Greek (Native).
- **Interests :** Fitness , playing musical instruments, Hiking , Travelling.