Matthaios Gerakis

Software Developer and Electronic Engineer

+306977444839

matthew.g97@hotmail.com

Thessaloniki, Greece

Skills

- C#, C, C++
- Java
- Python
- HTML, CSS
- Javascript
- PHP
- .NET
- MVC Pattern
- Dapper ORM
- REST APIs
- Razor Pages
- SQL
- jQuery
- Microsft D365 CRM SDK
- Azure DevOps
- Jira
- Android Studio
- PCB Design
- Electronic Circuits Design

Languages

- Greek - Native
- English - C2

Hobbies

- Guitar effect pedals building
- Arduino Projects

Introduction

Enthusiastic and dedicated Software Developer with a strong foundation in software development principles and programming languages. Committed to continuously expanding my technical skills and knowledge in the dynamic field of software development. Skilled in various programming languages like C, C++, C#, Java and technologies like .NET, SQL, jQuery, REST APIs and Razor Pages. Passionable for writing clean, efficient, and maintainable code. A quick learner with the ability to grasp new concepts and technologies swiftly. Proven ability to work collaboratively in a team environment, effectively communicate ideas, and contribute to the successful delivery of projects. Seeking an opportunity to further develop my skills and make a positive impact as part of a supportive and innovative software development team.

Education

Oct 2015 - Dec 2021

Department of Information and Electronic Engineering

International Hellenic University, Thessaloniki, Greece

Diploma thesis: "Development of an educational application in order to improve skills in children with special needs". (Certificate with commendation as one of the best theses of 2021.) | https://www.iee.ihu.gr/

Experience

Mar 2021 - Now

Profile Website Development and Maintenance

salonique-a-pied.com

Development of a profile website for tour guides. Implementation of communication form and trilingual translation (in Greek, English and French) using PHP.

May 2022 - Nov 2022

Application Developer

Kuehne + Nagel

Worked with ABBYY Flexicapture OCR platform. Developing applications and scripts that can recognize, allocate and extract information of text fields from images or text files.

https://gr.kuehne-nagel.com/

Nov 2022 - Now

Full-Stack Developer

Metron Solutions SA

Developing applications for internal use, in order to facilitate and simplify the tasks that the company is called upon to implement. The development takes place on front end as well as on back end and database design using technologies like .NET Framework, MVC, Dapper, REST API, Razor Pages, jQuery, Microsoft D365 CRM SDK and SQL.

https://www.metronsa.eu/

Projects

Arduino Controled Hi-Fi Amplifier

A Hi-Fi amplifier which is controlled by an Arduino Nano. The Arduino is responsible for selecting audio source (via six touch buttons) and functions like tape monitor, IR commands (Volume Up, Volume Down as well as audio source change) and LED bar colors.

View Source Code

Arduino Remote Control Receiver

An Arduino based IR scanner which prints the hexadecimal value of each IR command it receives.

View Source Code

MVC Application

A simple MVC (Model-View-Controller) application that was one of the first that I build implementing CRUD actions (Create, Read, Update and Delete) for educat. The project retrieves data from a SQL Database and validates it before submission.

View Source Code

Bluetooth speaker

A wooden Bluetooth speaker designed exclusively by me. The frame was designed in a CAD model. The electronic circuits in conjuction with two powerful speakers and two passive speakers implement an 15W Bluetooth speaker.

View Photoes

URL Shortener

A web application that shortens URL addresses for easier sharing. The genereted shortened urls are stored and the database is erased every week to prevent size overload.

View Source Code

Publications

A Mobile Educational Application for Enhancing Cognitive and Language Shills of Children with Disabilities

Published on Springer Link - Apr 2022

The current paper aims at the development of a mobile educational application for enhancing cognitive and language skills of children with disabilities. During their development, they receive a variety of stimuli that influence and shape these skills. Therefore, they should be helped and supported as much as possible with all available means. Additionally, the identification of language and cognitive disorders is a major challenge to special education teachers. It is thus important to develop a specially designed application aiming at the enhancement of skills of children with disabilities and will be available to all stakeholders (special education teachers, children, parents).

Honours and Awards

2 Mar, 2021

One of the best Thesis of 2021

Information and Electronic Engineering Department

My thesis selected among all theses of 2021 and awarded with commendation as one out of three best theses in the department.

View Commendation

Courses

May, 2024

Coding for Everyone: C and C++ Specialization

A Course consisting of 4 individual sub-courses. In this Specialization, I acquired the fundamentals of coding in C and C++ programming languages, including a deep understanding of computer programming and algorithms, conversion of C to C++, and the ability to use it to solve complex problems.

Issued By UC Santa Cruz, Coursera

View Cerificate

- **C For Everyone: Programming Fundamentals,** Nov 2023   **View Cerificate**
- **C For Everyone: Structured Programming,** Nov 2023   **View Cerificate**
- **C++ For C Programmers Part A,** Nov 2023   **View Cerificate**
- **C++ For C Programmers Part B,** May 2024   **View Cerificate**

Nov, 2023

Docker Essentials & Building a containerized Web Application

Issued By Coursera Project Network

View Certificate

Jul, 2021

Python Data Structures

Issued By University of Michigan, Coursera

View Cerificate

Mar, 2021

Programming for Everybody (Getting Started with Python)

Issued By University of Michigan, Coursera

View Cerificate

Oct, 2019

Google Grow Greek Tourism Online

Issued By Google

View Cerificate

Oct, 2018

5th Technology Forum attendance

Issued By Technology Forum

View Cerificate