DENADA
BALI

Bill Clinton Street
+355 67 634 1622
denaldabali@gmail.com
denaldabali@outlook.com
https://github.com/Denada-Bali
https:/www.linkedin.com/in/denada-bali-4b90b8209

OBJECTIVE

Bachelor Student at New York University in Tirana, in the major of computer science. I have good programming skills and a lot of determination, and plans for my future.

EDUCATION

Bachelor Computer Science | University of New York Tirana
OCTOBER 2018 – PRESENT
Some major courses I have attended:

- Introduction to Computer Science, October 2019 – February 2020
- Introduction to programming (C++ language), October 2019 – February 2020
- Object Oriented Programming, February 2020 – June 2020
- Data Structures, October 2020 – February 2021
- Computer Organization and System Architecture, October 2020 – February 2021
- Programming in C#.Net, February 2021 – June 2021
- Introduction to Mobile Application development, February 2021– June 201
- Database Systems, October 2021 – February 2022
- Data Communication and Networks, October 2021– February 2022
- Operating Systems, February 2022– June 2022
- System Analysis & Design, February 2022– June 2022
- Software Engineering, February 2022– June 2022
- Algorithms and Complexity, February 2022– June 2022
- Network Administration and Management, February 2022– June 2022.
- System Administration, October 2022 – February 2023
- Advanced Java, October 2022 – February 2023
- Computer Operations and Security, October 2022 – February 2023
- Visual Basic: Computer Programming, February 2023 – Present
- Web Systems Development, February 2023 – Present

And many other general and concentrate courses.

EXPERIENCE

So far, I have no work experience because I have given priority and dedication to school, but I have worked on many school and non-school projects.

SKILLS

- Microsoft Office
- MySQL
- SQL
- Java
- C++
- C#.NET etc.

LANGUAGE

- **Albanian** – Native speaker
- **Turkish** – Working knowledge
- **English** – Very good command
- **French** – Working knowledge

ONLINE COURSE

Android App Development | Udemy Academy

JULY 2021 – AUGUST 2021

Complete course for Android App development, very useful in developing application from the scratch.

SCHOOL PROJECTS

My school projects consist of C++, Java, and C# languages.

- **C++ Programming**

The purpose of the project was to calculate the taxes applied to the salary of an employee in Albania. Given the Employee Gross Salary, the program was to calculate PIT (Personal Income Tax), Occupational Health Contributions, Employee Social Contributions, and Net Wage. The program should ask the user to enter the gross salary for each month of the previous year, for each job done.

GitHub Repository - C++ Project

- **Object Oriented Programming with Java.**

The project involved developing a java program for a bar / restaurant with several features such as:

1. Item - Name, ID, and Price.
2. Table - ID, Net Amount, Total Amount, Date and Time of Purchase, Address of the bar/restaurant, Name of cashier.

3. Waiter - Name, Surname, Username and Password.
4. Manager - Name, Surname, Username and Password.

Also, the program had to present a Menu for the waiter and the manager after they enter with theusername and password. The menu included these points:

- New table
- Insert item in table
- Remove item from table
- Modify item in table
- Print information for current table
- Print information for table with a certain ID
- Apply discount to table with 10%
- Overall number of tables for the waiter with a certain username. (Require manager password)
- Total amount of all tables processed by the waiter with a certain username (requires manager password).
- Total number of all items processed by the waiter with a certain username (requires manager password).
- Total amount of all items of the current day (requires manager password).
- Switch program from one waiter to another waiter
- Switch program from Waiter to Manager and vice versa
- Exit

The purpose of the program was to use classes, inheritance and polymorphism.

- **Data Structures**

The project involved implementing a binary search tree to allow duplicates which contained the following requirements:

- Return number of duplicates of an element.
- Find and replace all duplicates of an element A with element B.
- Show all the tree together with the duplicates (pre-order, in-order, post-order, level-order).
- Remove all existing duplicates (leaving only one copy) of an element.
- Remove only one copy of the existing duplicates of an element.
- Remove all existing duplicates (leaving only one copy) for all the duplicated elements in tree.

- Print all elements that have duplicates together with the number of duplicates.
- Print the number of all the duplicates in the tree.
- Show only the nodes that have/do not have duplicates.

GitHub Repository – Data Structures Projects

- **C#.Net**

The project required us to create an MDI (Multiple document interface) application, it had to contain:

- A login page,
- We had to use inheritance,
- Classes,
- Polymorphisms,
- And the entered data had to be stored in the database.

GitHub Repository – C# .NET Project

- **Mobile Application**

The project required us to build a genuine application with the knowledge gained during the course, such as:

- The application had to be linked to a database,
- It had to have a login and registrar interface,
- We had to include an API,
- We also had to include check box, radio group / radio button, web view, recycle view, switchbutton etc.

Also, primary for the project was the idea of the application which we would develop, it is known to be innovative.

GitHub Repository – Mobile Applications Project

- **Database Systems**

The project consisted of:

- Choosing a business and then creating a management system for it using oracle SQL.
- We had to write a report document to describe all the main processes that are performed andhow the tables were created.
- Finally, we had to create a UML diagram which had to be based on description.

During the presentation of the project, the course instructor would give us some queries about the database we created.

GitHub Repository – Database Systems Project

- **Algorithms and Complexity**
  The project consists of two tasks such as:

Task 1:

Write an efficient program that allows a user to input a set of time intervals in any order (the input size should be defined by the user). The program should merge all overlapping intervals into one and print only mutually exclusive intervals.

Task 2:

Write an efficient program that allows a user to input a set of integers (the input size should be defined by the user). The program should create a binary tree, and then print its nodes level by level in spiral order, as follows: all nodes at level 1 should be printed first from left to right, followed by nodes of level 2 from right to left, followed by nodes of level 3 from left to right and so on

GitHub Repository – Algorithms Complexity Projects

- **Advance Java**

In this assignment we had to do some basic natural language processing (NLP). We need to write a program which will construct a language model (for several different languages) and, when asked to classify a text, should select the language whose model is closer to the text in question.

GitHub Repository – Advance Java Project

NON-SCHOOL PROJECTS

Online Library | Mobile App

In this section I want to talk about one of my non-school projects which includes an online library for android.
The application consists of two main interfaces as user and admin where the task of the admin is to open the categories and upload the books in the system.
And the user's task is to be able to read, save, add to favorites and download books as well, as leave comments about the relevant book.

HOBBIES

Reading books, walking, and sketching are some of my favorite pastimes.

I can also solve Rubik's Cube 2x2 and 3x3. My previous best time was 2:47.67seconds (at 3x3 cube).

I am always able to learn new skills.