ALA DARAWISH

Outlook: ala.darawish.cs@outlook.com | Phone: +972 597308909 | Ramallah – sorda

# Summary

# I graduated from Birzeit University with a major in computer science. I have experience in front-end and back-end development. I have successfully completed several backend and full-stack projects. My strong analytical and technical skills enable me to provide innovative solutions to technical issues. My passion for technology drives me to continuously learn and achieve excellence in all my projects.

# Skills

* Professional on ERP Odoo Systems
* Odoo report system FXMl
* Oracle Apex System
* Python programming (NumPy, pandas, Matplotlib, Tkinter)
* Django
* Cloud platform AWS
* JavaScript
* PHP
* Android Developer Kotlin, Java
* Database management: MySQL, SQL Server, Postgres
* Spring Boot && spring microservices
* Version control Git: GitHub, Bitbucket
* React, Bootstrap 4
* NoSQL databases Cassandra, MongoDB
* Graph database, social network, Neo4j DB
* Docker
* API design and development: SOAP and REST APIs

# Education

Birzeit University | Ramallah, Palestine

Bachelor: Computer Science

I finished my graduation project with excellent grades: 90%, DR: Ahmed Abu Sninah

# Experience

## Full Stack Developer training | Olivery Company| 08/2023 – 02/2024

* Developed and customized a management and delivery system using the Odoo framework.
* Adding new features and tailored solutions for individual clients.
* This experience significantly enhanced my Python programming skills and system development expertise.
* Designed and implemented REST APIs to integrate the backend with the frontend.
* Built and implemented responsive UI designs for new users using Bootstrap and JavaScript.
* Develop a usable report system to print labels using FXML.
* Contributed actively to the repository with more than 80 commits and 50 merges, ensuring smooth version control and collaboration with the team.
* Enhanced the system’s mobile application using Ionic, integrating it with the main system, and implementing Google Maps services to optimize the delivery process.
* Designed and created Odoo models and integrated them with the database using Odoo ORM for the data management system (PostgreSQL).
* Build triggers and stored procedures on the database level.

## RWTC | training

* Designed and implemented user interfaces using HTML, CSS, and JavaScript.
* Developed android mobile application using Kotlin.
* Proficient in using Git and GitHub for version control.
* Learn how use .net framework and SQL server to develop a web Application.

# Projects

## Max Scheduling WebApp

• is Hybrid metaheuristic optimization AI engine schedule creation and management, architected a solution to the school timetabling problem by implementing a hybrid metaheuristic model that combines genetic algorithms (GA), simulated annealing (SA), and tabu search (TS), formulated the chromosome encoding, selection, crossover, and mutation operations specific to the scheduling domain to effectively evolve potential solutions, designed a multi-objective fitness function to penalize constraint violations (hard constraints) and reward desirable schedule traits (soft constraints), guiding the algorithm toward optimal solutions, addressed the challenge of local optima in GA by integrating SA for refinement and TS for strategic diversification, significantly improving solution quality and convergence speed, **technologies**: Django, Bootstrap 4, JavaScript, Python, Algorithms: genetic algorithms, simulated annealing, and tabu search.

## e-Commerce System

• Developed a full-featured eCommerce application with product management, user authentication, order processing, product catalog & search, shopping cart, checkout, order tracking, reviews & ratings, and PayPal integration using Redis, React, and Express with the NoSQL database MongoDB.

## Hotel Management System

• Designed and developed a hotel management system to reserve and manage rooms using Spring Boot, providing REST APIs for key features. Implemented JWT-based authentication for secure user access. Technologies: Java, Spring Boot, MySQL, REST API.

**Data Analysis Platform**

• Built a data analysis platform using Python libraries (Python libraries like Numpy and UvL) to analyze large-scale datasets. Developed visualization tools using Matplotlib to present data effectively. Technologies: Python, NumPy, pandas, Matplotlib, Jupyter Notebook.

**Mobile Application Development**

• Designed and developed mobile applications for Android using Java and Kotlin. Built an app with Firebase integration for real-time database synchronization. Implemented secure authentication using Firebase Authentication. Technologies: Kotlin, Java, Firebase, Android Studio.

**Food Delivery System**

• Built android mobile application for online food delivery.

Developed backend using flask, integrated with PostgreSQL database.

Implemented user authentication and payment gateway integration. Technologies: Kotlin, firebase, python, flask.

# Certifications

RWTC - Mobile programming using Kotlin (OOP, android), finish 120h

RWTC - Web development using C#

Udemy - course Django for Marten Hart

Udemy - Bootstrap 4, HTML, CSS, JavaScript front-end- professional lab course

Mohammad Kharma BZU club - Spring boot && microservices course

Udacity - Data Analysis 170 hours

Rasheed Jaiuse BZU course – NodeJS, NoSQL-MongoDB

# Linkes

GitHub: [github.com/AlaYOD](http://github.com/AlaYOD)

BitBucket:

* MaxSchedulingApp: [https://bitbucket.org/testprojectall/maxscheduling.](https://bitbucket.org/testprojectall/maxscheduling)
* Inventory App : [https://bitbucket.org/testprojectall/inventorygatewaymicroservices.](https://bitbucket.org/testprojectall/inventory-gateway-microservices)
* MaxSchedulingAppBackend: [https://bitbucket.org/testprojectall/schoolschedul ingbackend.](https://bitbucket.org/testprojectall/schoolschedulingbackend)
* [https://bitbucket.org/testprojectall/maxscheduling/commits/branch/master.](https://bitbucket.org/testprojectall/maxscheduling/commits/branch/master)