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**SUMMARY**

Passionate software developer with a solid foundation in coding and a background in biological sciences. Proficient in software engineering principles, including SOLID design patterns and Object-Oriented Programming.

**EDUCATION**

**Bachelor of Science (B.Sc.) in Bioinformatics Oct 2022 – Mar 2025**

Lev Academic Center, Jerusalem

* Relevant Coursework: Object Oriented Programing, Data Structures, C++ Programing, Artificial Intelligence, Deep Learning, Algorithm Analysis.
* Laboratory Experience: Biochemistry, Molecular Biology.
* Notable Achievement: Developer and led a bioinformatics project on Parkinson's Disease, which was recognized for its excellence and is set to be published as an article in Nature magazine.

**Certificate in Graphics Oct 2019 – Oct 2020**

Mahat – Training for Certified Engineers and Technicians

* Graphic Design: Proficient in Illustrator, Photoshop.

**PROFESSIONAL EXPERIENCE**

**Resume Website – Personal Portfolio in React**  
Developed a personal website using **React** to showcase my resume in English. The site features a clean, responsive user interface and presents my background and skills in a professional and accessible manner.

**Cake Recognition App – AI-powered cake identification and allergen detection**

Designed and implemented a mobile app that lets users upload a cake image for analysis, identification, and allergen detection using a trained CNN built with **TensorFlow**. Developed with a **React Native** client, a **Python** server, and a **CNN** trained on a Kaggle dataset, communicating via a **REST API**.

**Community Volunteering Management - Desktop Application**

Developed a desktop application to manage help requests and volunteers. The application enables volunteers to log in, browse available requests, and select the ones they wish to assist with. Administrators can also access the platform to submit new requests. Built with **C#** and **WPF**, the application has a **three-layer architecture** and uses **Singleton** and **Factory design patterns**, with data stored and managed through **XML.**

**Bioinformatics Project on Parkinson's Disease**

Developed a **Python** tool to identify drugs and molecules related to Parkinson's disease using **NCBI data mining** techniques. Created algorithms for automated data extraction and analysis. Supervised by Dr. Avraham Samson, this project will be published in Nature magazine.

**SKILLS**

Python REST API CPP SQL My SQL C# Data Structures JavaScript OOP Linux R WPF Git TensorFlow React

**VOLUNTEERING**

**Ezer Mizion – Patient Support Volunteer Oct 2022 – Apr 2023**

**LANGUAGES**

English – Proficient Hebrew - Native