

# Ofir Biton

## Software Developer

0526619544 | ofirbiton4@gmail.com | linkedin.com/in/ofir-biton | github.com/ofirbiton

3rd year Computer Science student with hands-on experience in Python software development, proficient in Java and C++. Strong analytical skills, quick learning ability and proven ability to collaborate effectively within functional teams. Interested in backend and software development roles, available for full time role.

## Experience

### Research Assistant Internship, Cyber@BGU

Jan - May 2025

- Developed a modular ML pipeline in **Python** and reduced code duplication by ~40% by **refactoring** the existing code
- Optimized** dataset handling with efficient NumPy-based data structures for faster I/O and **reduced memory usage**
- Fine-tuning the HeBERT and BERT models with PyTorch and Scikit-learn, **increasing accuracy** to 95%
- Created SLURM jobs and ran **distributed** training for large-scale model
- Contributed directly to the lab's research paper through **system design**, implementation, and experimental analysis

## Skills

**Languages:** Java, Python, C++, JavaScript, SQL

**Tools:** PyTorch, Scikit-learn, NumPy, RESTful APIs, Flask, React, SLURM, MySQL, MongoDB, Linux

**Concepts:** OOP, Data Structures & Algorithms, Multithreading, Design Patterns, TCP/IP, Memory Management

## Education

**Sapir Academic College**, Bachelor of Science in Computer Science  
GPA: 84

Expected Aug 2025

Planning to pursue **M.Sc. in Computer Science** starting 2025

### Moshal Program Scholarship

Awarded to high-achieving students, providing full academic funding, mentorship, and career development courses

## Projects

### SkyOps - Autonomous Drone Path Planning, Academic final project

- Developed a web platform for autonomous drone path planning, combining image processing and real-time control
- Built the backend using **Flask**, REST APIs, OpenCV for image analysis, and skeleton-based graph construction
- Implemented pathfinding algorithms (BFS, Dijkstra) to calculate **optimal** flight routes in urban environments
- Created a frontend with **React**, GovMap API, and Leaflet for interactive zone and waypoint selection
- Generated drone-compatible waypoint sequences in WGS84 format and **managed client-server communication**

### E-Commerce Website

- Designed and implemented a full-stack web application using **React**, **Node.js**, and **MongoDB**
- Built features including product catalog management, dynamic shopping cart, and secure checkout workflow
- Delivered end-to-end functionality with backend APIs, client-side state management, and persistent data storage

## Military Service

**Combat soldier and medic**, IDF - Golani Brigade

2017 - 2019

- Operated in high-pressure environments, excelling in **teamwork and cross-team collaboration**
- Received certificates of excellence in operational activities and brigade training

## Languages

Hebrew - native

English - highly proficient