

# Tomer Karmazin

SOFTWARE DEVELOPER

## ABOUT

I am a Computer Science student nearing the end of my studies, with a broad understanding of data structures and algorithms. I have experience with Python, Java, SQL, and mobile application development. My interests lie in finance, AI. I am eager to expand my knowledge both within and beyond my formal education. I recently developed a Pathfinding Visualization Game, combining algorithmic problem-solving with intuitive UI/UX design. I am passionate about building innovative solutions and aspire to contribute to impactful projects in AI and fintech.

## CONTACT

- +972-548008182
- tomer@jeepsea.co.il
- [Linkedin](#)
- [Github](#)
- Tel-Aviv, Isreal

## SKILLS

- Java
- Python
- Javascript
- C
- mySQL
- MongoDB

## LANGUAGE

Hebrew - Native Language  
English- Fluent

## PROJECTS

### Python - Algorithms visualization game

I developed a Pathfinding Visualization Game to demonstrate my Python programming skills and knowledge of algorithms acquired during my Computer Science studies. The project uses Pygame to create an interactive grid and visualize the execution of pathfinding algorithms. Intuitive UI with visually appealing elements to enhance user understanding. The game includes functionality to save metadata and snapshots of the grid to an Excel file.

- Implementing BFS ,DFS, A\* ,IB-RRT\* as a searching algorithms.
- Implemented functionality to export grid metadata and images to Excel.
- Interactive grid interface with appealing elements and responsive design.

### JavaScript - Weather App Widget

A web application powered by JavaScript for quick access to current weather information, utilizing the OpenWeather API. Developed with HTML, CSS, and JavaScript, the widget allows users to input their city name or code and view the weather details instantly. The clean and straightforward layout ensures easy usability for all users.

- Utilized JavaScript to dynamically fetch and display weather data from the OpenWeather API.
- Designed an intuitive user interface with HTML and CSS for effortless weather information retrieval.

## EDUCATION

### Afeka College - B.Sc in Computer Science 2021 - 2025

At my academic studies, I have gained different skills such as problem-solving, deep understanding of both theoretical and practical aspects of Computer Science and time management for a successful proefficient schedule.

- Strong understanding of data structures and object-oriented.
- Programming and algorithms.
- Working with partners and delivering projects under pressure.
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## MILITARY SERVICE

### Paratroopers Brigade Combat Soldier (Battalion navigator) 2017 - 2018

- Combat navigator in overall operational force.
- Combat soldier as Frontline combatant .
- Responsible for units route on missions.

## VOLUNTEERING

### Belev - Echad - Project Manager 2023 - Present

Responsible for organizing hospital visits for wounded soldiers as well as recruiting new soldiers to partake in the organizations benefits. Working closely with my team in New York and Israel on new initiatives and strategies  
Founder of core programs to help and establish disabled veterans.