

# Roi Nir

Graduating computer science student with a passion for problem solving & articulating elegant solutions. Skilled communicator & independent learner. Seeking a junior software developer position.

## Education

2021-  
Present

### BSc. Computer Science at Bar Ilan University

- **Mentor** at the University faculty **tutoring program**.
- Courses: Algorithms (86), Networks (90) & Databases (92).

## University Projects

### Chat Application

#### JavaScript, Android, React, Node.js, MongoDB, REST API

- Developed a cross-platform chat application that supports real-time synchronized chat messaging & push notifications.
- Implemented an MVC structured node.js server that supports user authentication, persistent data management & notifications to online users.
- Designed web & android chat application.

### Classifier Service

#### Machine Learning, C++, TCP, PThreads

- Implemented vector based KNN supervised machine learning algorithm for classifying parameterized data.
- Utilized command design pattern for code modularity & separation.
- Developed multi-threaded TCP server to support responding to multiple clients simultaneously.

## Experience

2023-  
Present

### Team Lead, Cyber Education Center

- Mentoring senior high school students in cyber research.
- Guiding in student's cyber research projects using agile development. Teaching fundamentals in networks & cyber.

2020-2021

### Software Integrator, Matrix

- Instructed medical teams in hospitals on database systems.

2018-2019

### MEMS Production Technician, Rafael


- Lab technician as part of a production team.


## Military Service

2015-2018

### Cybersecurity Analyst, Airforce

- Team lead for analyzing vulnerabilities in operational computers.
- Awarded distinction for great performance & can-do-attitude.

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 [Profile](#)

 [Projects](#)

## Coding

- Python
- Java
- C, C++
- TypeScript
- React, Next, Node
- REST API
- SQL, NoSQL

## Languages

**Hebrew**- Native

**English**- Native-level

**Chinese**- Introductory

## Tools

- Git, Jira
- Docker

## Environments

- Linux
- Windows

## Volunteer Work

**Magen David Adom**

Delivered emergency medical care as a team member for 2 years.