

# YANA PATYUK

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## B.Sc. in Computer Science

- ❖ Development knowledge in **C#, C, C++, JAVA, Python, ASP.NET, JavaScript, HTML, CSS, MATLAB**.
- ❖ Knowledgeable in SQL programming and database planning.
- ❖ Deep understanding and implementation of OOP / OOD principles Parallel & Multi-threaded programming.
- ❖ Systematic vision and logical thinking. Quick to master new technologies and a great self-learner with a can-do attitude ability to cope with complex technological challenges Proven work experience in a team and as single - in work and projects in various frameworks, very good interpersonal relationship.

## Education

**2016 - 2020 - B.Sc. Computer Science at Bar-Ilan University.**

**Relevant Coursework:** Machine learning, Artificial intelligence, Introduction to Cyber Security Programming, Computer Vision, Big Data, Parallel programming

## SKILLS

**Programming languages & Technologies:** C, C++, C#, JAVA, Python, SQL, MATLAB, MongoDB, MySQL, GIT.

**Familiar with:** GO, Assembly, JavaScript, Node.js, Angular, CUDA, HTML5, CSS, Microsoft SQL Server.

**Operating System:** Windows, Linux, Android.

**Other Skills:** Software Development, Program Development, Full Stack, Web Development, Unity Game developing, Android App Development, Web Applications, Web Services, Object Oriented Programming, Debugging, Parallel programming, ASP.NET, Back-end.

## Experience

**2020 – present, Back-End Developer- Sphera Academy**

volunteering nonprofit organizations <http://sphera.academy/>

- Develop and maintain a **website app (SaaS)** that manages users, collects information, and generates a full website.
- Server written in **Python**, using **Flask** framework, **MongoDB & Node.js**.
- Cooperated with team members in the developing and testing process using **GIT**.

## Academic Projects

**Final project- Android app & Server development, Bar-Ilan University & Taiwan University**

- Collaborated with the Taiwan team to develop a children's game app that studies child development.
- Led **Android app** development using **Unity** and **C#** with **OOP**.
- Collaborated with the client to understand their needs and plan ways to create user-friendly app.
- Investigated the processes of **Unity** to **reduce** saved **memory** for replay mode.
- Cooperated with team members in the designing & planning of the **ASP.NET WEB & Data servers**.

**Software Developer: Front & Back End, Services Developer-Project, Bar-Ilan University**

- Developed a complete system that includes **ASP.NET Web server**, **Windows application**, service and **Android app**.
- Implemented development of **multi-threaded server** using **OOP** and **design patterns** with **C#**.
- Designed, implemented and improved **Web server**, while collaborating with team members, using **.NET, JavaScript, HTML, CSS, XML, MCV/MVVM, React**.
- Produced **high-quality** final systems by ensuring installations, **testing**, and **code corrections** done properly.

**Software Developer: Front & Back End- "Reversi" Game - Project, Bar-Ilan University**

- Programmed Server and a Client **software application** using **OOP** and **C++**.
- Handled **designing and developing AI** as a computer player in several difficulty levels.
- Implemented a **multi-threaded** system combined with **TCP / UDP** communication.

**Software Developer - "Arkanoid" Game - Project, Bar-Ilan University**

- Established a **Windows application** using **OOP** as well as **Java** programming
- Designed, tested and implemented game features for better UI experience.
- Diagnosed and resolved problems within the system to make the game calculation faster and accurate.

## Military service

**2012-2015 Communications Officer, Release as Lieutenant**

- Managed a technical support team that includes 10 people answering 5 units of 300 users.
- Identified user needs for implementing new technologies.
- Provided quick identification of technical faults and initial solution.

## Languages

**Hebrew:** Native language | **English:** Fluent | **Russian:** Fluent