AVI SOCLOF

STUDENT OF COMPUTER SCIENCE B.SC.   📍 JERUSALEM, ISRAEL   📞 058 -627-2403

DETAILS

Jerusalem
Israel
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LINKS

Linkedin

Github

SKILLS

C++

Python

Java

C#

Git

HTML/CSS/JavaScript

SQL

Mips

LANGUAGES

English

Hebrew

PROFILE

I am a Computer Science student at Lev Academic Center (JCT), graduating in August 2025, with a strong background in technology and a passion for Jewish education. I've gained hands-on experience in teaching, logistics coordination, and student recruitment. While I am deeply passionate about the intersection of technology and education, I am currently focused on pursuing roles in the computer science field, where I can apply my technical skills and continue to grow professionally.

EDUCATION

BSc - Computer Science, Lev Academic Center - JCT, Jerusalem
October 2021 — Present

High School Diploma, Fuchs Mizrachi High School, Cleveland
August 2016 — May 2019

EMPLOYMENT HISTORY

Recruiting Coordinator at Lev Academic Center - JCT, Jerusalem
January 2022 — Present

- Spearhead recruitment efforts for JCT's international programs, engaging with high school students across North America and South Africa, as well as yeshiva and seminary students in Israel.

- Develop and deliver compelling presentations and informational sessions to diverse audiences, effectively communicating the value and opportunities offered by JCT's programs.

- Build and maintain strong relationships with educational institutions, community leaders, and prospective students to foster interest and drive enrollment.

- Coordinate with academic departments and admissions teams to ensure a seamless recruitment process, from initial contact through to enrollment.

- Utilize social media and digital marketing strategies to reach a broader audience and increase program visibility.

- Track and analyze recruitment metrics to refine outreach strategies and improve overall effectiveness.

Program Associate at NCSY Israel, Jerusalem
September 2024 — Present

- Led regional Shabbatonim, serving as MC and Staff Gabai, fostering a lively atmosphere through Ruach and activities.

- Coordinated and implemented regional and mega events, focusing on teen engagement.

★ PROJECTS

Task Manager

- Developed a Windows-based task management system using C#/.NET and WPF/XAML

- Implemented three-tier architecture (data, business, and presentation layers)

- Created dual interfaces for administrators and engineers with role-based access

- Built features for task creation, milestone tracking, and engineer assignment

- Integrated XML data storage, LINQ processing, and Gantt chart visualization

- Developed automated project scheduling and dependency management system

3D Graphics Engine and Ray Tracer

- Implemented a 3D graphics engine in Java with comprehensive camera and lighting systems, featuring anti-aliasing and multi-threading capabilities

- Built a robust lighting system supporting ambient, directional, point, and spot lights with realistic attenuation and shadow casting

- Developed core geometric components including spheres, triangles, planes, and tubes with support for reflections, refraction, and material properties

- Created an efficient rendering pipeline using ray tracing, with support for multiple reflection/refraction and adaptive super-sampling unit testing, dependency injection, and modular architecture

- Implemented interface-driven development, composition over inheritance, and extensive J Unit testing for component validation

Library Billing System Project, Datbases

- Designed and implemented a comprehensive database management system for tracking library financial operations and resource management.

- Architected a PostgreSQL relational database schema (15+ tables, 2M+ records) for managing subscriptions, penalties, employee wages, assets, and procurement

- Optimized query performance using PostgreSQL indexing strategies, reducing execution time by up to 90% for critical financial operations

- Created automated backup/restore procedures using pg_dump and pg_restore tools and implemented SQL constraints to enforce business rules

- Developed analytical tools including PL/pgSQL stored procedures, parameterized queries, and materialized views to simplify complex reporting needs

- Built data visualization components using SQL analytical functions combined with charting libraries to analyze financial trends

- Successfully merged database schemas using Python migration scripts and PostgreSQL schema manipulation

- Technologies: PostgreSQL, SQL, PL/pgSQL, Python (with psycopg2 and Faker libraries), Visualization tools