AVI SOCLOF

Student of Computer Science B.Sc.

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LINKS

PROFILE

I'm a Computer Science student graduating in August 2025, with strong programming foundations from coursework and personal projects. I've built skills in C++ (object-oriented programming), Java (software engineering principles), and Python (functional programming), while independently developing experience with React and REST APIs for web development. My natural curiosity drives me to continuously expand my technical knowledge. I'm now seeking opportunities to apply these skills professionally while continuing to grow in a real-world environment.

EDUCATION

❖ Lev Academic Center - JCT   Oct 2021 — Present
BSc - Computer Science   Jerusalem

- Curriculum includes 120 credits of comprehensive computer science coursework
- Rigorous curriculum featuring C++ (object-oriented programming), Java (software engineering principles), and Python (functional programming)

❖ Fuchs Mizrachi High School   Aug 2016 — May 2019
High School Diploma   Cleveland

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

- 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

SKILLS

Java	AWS (Lamda, S3, DynamoDB)
Python (Functional Programming, Web Programming, Cybersecurity)	Unix/Linux/MacOS
	PostgreSQL
C++ (Core & Advanced CS Concepts, OOP))	SQL
C# (.NET Framework)	Git Version Control
JavaScript/TypeScript	Mips Assembly Language
HTML/CSS/Tailwind	
React	

EMPLOYMENT HISTORY

❖ Recruiting Coordinator , Lev Academic Center - JCT

Jan 2022 — Present
Jerusalem

- 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

- Facilitated campus tours for prospective students and families, sharing personal experiences and addressing questions about academic programs and student life

- Developed and delivered compelling presentations to groups of 30+ prospective students, highlighting university strengths and opportunities

- Participated in training sessions to enhance communication, leadership, and public speaking skills

- Assisted with administrative tasks including data collection, follow-up communications, and event coordination

❖ Program Associate, NCSY Israel ... Sep 2025
Jerusalem, Israel

- Led the organization and execution of educational programming and recreational activities for Chai Boys Beit Shemesh High School boys in Beit Shemesh, Jerusalem District, Israel.

- Collaborated with team members to enhance student engagement and learning outcomes.

- Implemented innovative strategies to create a positive and enriching experience for the students.

- 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.

- Collaborated with the Regional Director on Chai Boys initiatives, enhancing program involvement.

❖ Student Ambassador ... Jan 2022 — Jun 2024
Jerusalem

- Facilitated campus tours for prospective students and families, sharing personal experiences and addressing questions about academic programs and student life

- Maintained comprehensive knowledge of university programs, admissions requirements, and campus resources to provide accurate information to prospective students

- Developed and delivered compelling presentations to groups of 30+ prospective students, highlighting university strengths and opportunities

- Mentored new student ambassadors, helping them develop confidence and proficiency in their roles

❖ Assistant Logistics Coordinator, NCSY Summer ... Jun 2021 — Aug 2023
Jerusalem

Seasonal Role

- Coordinated internship placements and provided ongoing support for 120 high school students across Israel

- Managed daily transportation logistics ensuring timely arrival at diverse internship locations Conducted student interviews and matched candidates with appropriate positions based on skills and interests

- Developed educational content integrating professional experiences with travel and Jewish education

- Served as liaison between host companies and program staff, facilitating communication and resolving issues

- Collaborated with staff to provide comprehensive support throughout participants' experience in Israel

LANGUAGES

English ... *Native speaker*   Hebrew ... *Very good command*