Effie Mincer

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EDUCATION

B.Sc. - Computer Science   **Aug. 2022 – July 2026**

Jerusalem College of Technology (JCT) | Machon Lev   *Jerusalem, IL*

- Notable Coursework:
  - **Operating Systems:** Process scheduling, memory management, synchronization, file systems
  - **UNIX Systems:** Linux system programming, shell scripting, inter-process communication (IPC)
  - **Advanced OOP & Design:** Design patterns, modular architecture, software scalability

PROJECTS

Jack to Hack Compiler (Nand2tetris)   **Apr. 2025 – July. 2025**

Zig

- Built a recursive descent compiler converting Jack (a high-level OO language) into VM and Hack Assembly
- Designed and tested syntax parsing and code generation modules following LL(1) grammar principles

3D Scene Rendering Engine   **Dec. 2023 – Apr. 2024**

Java

- Architected and implemented a physics-based 3D rendering engine supporting ray tracing, reflections, and complex lighting
- Implemented advanced features including real-time shadow calculation and material refraction

Enterprise Task Management System at JCT   **Dec. 2023 – Apr. 2024**

C#, WPF

- Developed a dual-interface task management application with role-based access control
- Designed scalable architecture supporting concurrent user operations and real-time updates

WORK EXPERIENCE

Operations Intern   **May 2023 – Dec. 2023**

Fullpath   *Jerusalem, IL*

- Built an automated mail merge system using Google Apps Script, reducing manual processing by 80%
- Led technical training for executives on using the automation tool, improving operational efficiency
- Produced 10+ video training modules to onboard staff and clarify Salesforce data model and CRM migration process

SKILLS & INTERESTS

- **Programming Languages:** Python, C, C++, Java
- **Tools & OS:** Git, Linux (Ubuntu), Visual Studio, JetBrains IDEs
- **Languages:** Native English, Professional Hebrew
- **Soft Skills:** Analytical thinker, collaborative team player, creative problem-solver, eager learner
- **Interests:** Competitive Sports (Volleyball, Hockey), Psychology, Martial Arts