

# Curriculum Vitae

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## **\*\*Summary\*\***

Practical and driven Software Engineer with a strong foundation in backend, full-stack, and embedded systems development, complemented by expertise in AI-assisted coding and workflow automation. Proficient in Java, C, TypeScript, and Node.js, with hands-on experience in building robust REST APIs, developing user-centric React applications, and implementing real-time embedded solutions. Eager to leverage AI capabilities and a passion for efficient problem-solving to contribute to innovative software development projects.

## **\*\*Education\*\***

**\*\*2025 (Ongoing) - Google & Reichman Tech School - Software Development (Power Tech) Program\*\*** \* Intensive 180-hour program focused on advanced software engineering principles and practices. \* Key learning areas include Agile methodologies, CI/CD pipelines (Git, GitHub, Jenkins, Docker), automation testing (Cypress TS, Selenium Java), real-time C programming for microcontrollers (I2C/SPI/UART communication), and AI Agents & Function Calling using Gemini. \* Includes a Practicum at READY.

**\*\*2023-2025 - Lev Academic Center - Excellence Program\*\*** \* Diploma: Practical Software Engineer (MaTa"H) \* GPA: 91/100

**\*\*2019-2022 - Bnot Elisheva High School\*\*** \* 10 units Computer Science (WPF C#) \* 5 units Mathematics \* 5 units English

## **\*\*Projects\*\***

**\*\*Full Stack Developer - Chavruta Management System\*\*** | 2025 (Ongoing) \* Architected and developed a robust three-layer application backend (Routes -> Controllers -> Services -> MySQL). \* Implemented secure authentication using JWT and HttpOnly Cookies, with bcrypt hashing and authorization middleware. \* Engineered a performant REST API supporting advanced features like filtering, sorting, pagination, JOIN queries, and JSON field manipulation. \* Developed a dynamic React frontend with multi-step forms, protected routes, FormData handling, and real-time UI state management. \* Integrated email notifications for user engagement and established consistent server-client error handling for improved reliability.

**\*\*Backend Developer - Volunteer Management System\*\*** | 2025 (Ongoing) \* Designed and implemented a clear Three-Tier Architecture, effectively separating Presentation, Business Logic, and Data Access layers. \* Applied key Object-Oriented Design Patterns including Observer, Singleton, Simple Factory, and Dependency Injection to enhance code modularity and maintainability. \* Developed a sophisticated Business Logic layer leveraging LINQ, XML persistence, generics, and structured exception handling. \* Created a WPF desktop client utilizing MVVM pattern, Data Binding, and event-driven UI logic for a responsive user experience. \* Implemented multithreading for asynchronous operations and a highly responsive user interface.

**\*\*Frontend Developer - Dynamic Form App\*\*** | 2025 (Ongoing) \* Built a standalone React client application that efficiently consumes an existing REST API. \* Managed complex form interactions, dynamic UI state, and comprehensive data display functionalities.

**\*\*Desktop Developer - Smart Lost-and-Found\*\*** | 2022 \* Developed a WPF desktop application using C# and WPF, integrating SQL for efficient item matching and data management.

## **\*\*Technical Skills\*\***

\* \*\*Programming Languages:\*\* Java, C, C++, C#, TypeScript, JavaScript, Python \* \*\*Backend Technologies:\*\* Node.js, Express.js, REST APIs, MySQL, SQL Server \* \*\*Frontend Technologies:\*\* React, HTML5, CSS3 \* \*\*Embedded & Verification:\*\* Microcontrollers (e.g., Arduino, ESP32 - \*Specify if possible\*), C (Real-time), I2C, SPI, UART, Verilog (RTL, FSM), Testbenches, UVM (\*Specify scope and complexity if possible\*) \* \*\*Software Engineering:\*\* Object-Oriented Programming (OOP), Design Patterns, Multi-Layer Architecture, Agile Methodologies \* \*\*Automation & Testing:\*\* Cypress, Selenium, Jenkins (\*mention specific CI/CD tools used\*) \* \*\*Tools & Platforms:\*\* Git, GitHub, Docker, Linux, CI/CD \* \*\*AI Development:\*\* AI-Assisted Coding (Gemini Agents, Function Calling)

\*\*Languages\*\*

\* Hebrew: Native \* English: Fluent (C1)