

Curriculum Vitae

Bracha Jakobovits Backend & Embedded Developer | Full Stack | AI-Assisted Development Phone: 058-325-1390 | Email: b0583251390@gmail.com | GitHub: github.com/Bracha222 | LinkedIn: [Your LinkedIn Profile URL - Highly Recommended]

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)