

Ron Dahan

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Software Engineer | Software Development Engineer (SDE)

Computer Science student building full projects end to end, from a neuroevolution AI to a live multi-retailer scraping engine. Comfortable across Python/FastAPI backends and React/Next.js frontends. Seeking a student software engineering position.

EDUCATION

Bachelor of Science (B.Sc.) in Computer Science, Reichman University (RUNI)

10/2024 - Expected 08/2027

Relevant Coursework: Data Structures, Algorithms (86), Operating Systems (93), Object-Oriented Programming, Computational Models

SKILLS

Languages: Python, TypeScript, JavaScript (ES6+), Java, C, C#, SQL, Bash, HTML, CSS

Backend & Data: FastAPI, Node.js, REST APIs, PostgreSQL, Supabase, Firebase, Pydantic, asynchronous job queues, multithreading

Frontend: React, Next.js, React Native / Expo, Tailwind CSS, HTML5 Canvas, Chart.js

ML & Computer Vision: YOLOv8, OpenCV, Keras 3 / JAX, EasyOCR, MediaPipe, NumPy, SciPy, genetic algorithms, neural networks

Testing & QA: Playwright, manual testing, test case design, issue documentation, quality assurance

Tools & Platforms: Git & GitHub, Docker, Linux CLI, VS Code, IntelliJ, Xcode, Gradle, Vercel, ESLint / Prettier, Claude Code, Cursor

Concepts: Algorithms, Data Structures, Object-Oriented Programming, Operating Systems, Concurrency, Recursion, System Design

Languages Spoken: English (fluent), Hebrew (fluent)

PROJECTS

ScrapeGoat - Live Multi-Retailer Price Comparison | Python, FastAPI, Playwright, Next.js, TypeScript

2026

- Built a live price comparison service that queries Amazon, Best Buy, Walmart and Newegg in parallel threads, reducing total runtime from the sum of four scrapes to the duration of the slowest one.
- Designed a four-stage extraction fallback chain (BeautifulSoup, Playwright, LLM text extraction, Firecrawl) where each stage runs only when the previous returns empty, keeping expensive model calls rare.
- Handled incorrect product matches by combining rapidfuzz title shortlisting with an LLM verification pass, storing results in Supabase with the extraction stage and trust score attached.

Icy Tower - Browser Platformer | JavaScript, HTML5 Canvas, Python, Keras/JAX, MediaPipe

2025 - 2026

- Built a platformer game inside the browser with no game engine, including physics, collision, and rendering written from scratch.
- Trained a neural network to play it using a genetic algorithm written from scratch, reaching floor 179 after 2,000 generations without any ML training library.

EXPERIENCE

Software Developer | Code4Good (volunteer program)

03/2026 - Present

- Engineered a computer vision pipeline using SIFT feature matching and CLIPSeg models for automated image segmentation and shoreline detection across a large-scale environmental research database.
- Developed and deployed a GUI that wrapped the machine learning models, enabling research institute staff to analyze visual data without machine learning expertise.

Team Commander & Operations Lead | IDF, Artillery Corps

11/2018 - 11/2021

- Directed a team of 12 personnel in high-pressure operational environments, owning daily operations and logistics.
- Built a Google Sheets tracking system monitoring performance metrics and qualifications for 12+ soldiers, improving training throughput.