YONI LEHAVI

Mathematics MSc student | Algorithms, data and software

Jerusalem, Israel | Native English and Hebrew
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PROFILE

Mathematics MSc student and graduate teaching assistant at the Hebrew University of Jerusalem. Strong academic foundation in algorithms, computation and optimization; developing practical software through AI-assisted projects with inspectable implementations and tests.

EDUCATION

Hebrew University of Jerusalem | MSc in Mathematics

March 2024 - expected December 2026 | Current grade: 95

Hebrew University of Jerusalem | BSc in Mathematics

October 2020 - July 2023 | Grade: 96

Selected coursework: Python (99), Computational Models (99), MATLAB (98), Algorithms (91), Convex Optimization (94; excellent course project).

SELECTED TECHNICAL PROJECTS

CatalogLift | Catalog validation and preparation

JavaScript, Node.js, CSV processing | Demo, source and test suite

Developed an AI-assisted pipeline to validate product records, match image filenames and separate ambiguous records for review while preserving source data and an audit trail.

Verified 23 automated tests covering CSV parsing, duplicate conflicts, identifier preservation, price conventions, unsafe paths and HTML escaping. A synthetic 12-row fixture reconciles 7 accepted rows and 5 held rows; no real-client implementation is claimed.

Facefield | Interactive photo-arrangement application

JavaScript, Cloudflare Workers, D1, Google sign-in | yoninyoni.fun

Created an AI-assisted web prototype for arranging photos into collections and spatial layouts, with drag interactions, authenticated access and saved user state. Iterated on touch interaction and arrangement behavior.

EXPERIENCE

Graduate Teaching Assistant, Mathematics | Hebrew University

December 2024 - present

Teach and explain mathematical concepts to undergraduate students.

Battalion and Company Medic | Israel Defense Forces

August 2016 - March 2019

Provided medical support and coordinated emergency logistics in high-pressure environments.

TECHNICAL FOUNDATION

Academic programming: Python, MATLAB, Java. Project work: JavaScript, Node.js, web interfaces and Cloudflare deployment. Theory: algorithms, convex optimization, computational models and computability.