

Luba Ira Korlat

Software Engineer ■ Educator

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Profile

Master's graduate in Software Engineering with strong foundations in algorithms, data structures, and machine learning. Experienced in computational modeling (PINNs, numerical methods) and modern Python/ML stacks; comfortable with backend development, databases, and cross-platform app development. Focused on building efficient, scalable, and well-tested software.

Technical Skills

Languages	Python, Dart/Flutter, Java, C++, C, C#, SQL, R, HTML/CSS
ML / Data	TensorFlow, Keras, OpenCV; model training & evaluation, CV/NLP basics
Backend & Web	Django, FastAPI, Next.js, REST APIs, MySQL, SQL Server, PostgreSQL, NoSQL (CouchDB, Firebase)
Tools	Git, Docker, UNIX/Linux, CI/CD pipelines
Methods	Agile/Scrum, Kanban, SDLC, testing (pytest, unit/integration)

Education

Sami Shamoon College of Engineering (SCE) 2022–2024
M.Sc. in Software Engineering GPA: 96
Thesis: 2-Phase Stefan Problem for Lunar Regolith Melting. *Coursework:* Deep Learning, Advanced Algorithms, NLP, Computer Vision, Advanced Databases.

Sami Shamoon College of Engineering (SCE) 2015–2022
B.Sc. in Software Engineering GPA: 80
Final project: Hebrew text summarization using NLP.

Experience

Freelance Software Developer (Self-Employed, Registered Sole Proprietor) Jan 2025 – Present

- Deliver end-to-end projects for private clients, including mobile apps, websites, and backend systems.
- Design and develop solutions using multiple programming languages and frameworks (Python, Flutter/Dart, Java, C++, SQL, web technologies).
- Author detailed project specification documents and translate client requirements into technical designs.
- Provide consultation, problem-solving, and implementation in mathematics, algorithms, and software engineering.

Aleh Association — Tutor / Transcriber Sept 2023 – Present

- Tutor disabled students in CS/SE topics; clarify complex concepts and ensure accessible materials.
- Collaborate with faculty to adapt coursework and assess understanding.

Sami Shamoon College — Tutor Apr 2023 – May 2024

- Guided individuals and groups in Software Engineering coursework (algorithms, data structures, OOP).

Achva Academic College — Tutor Nov 2021 – Apr 2022

- Led database practice sessions for Information Systems students; reinforced SQL and normalization.

Research

Sami Shamoon College of Engineering — Research Student 2022–2024

- Conducted independent research under supervision of faculty advisors.

- Developed Python-based simulations for lunar regolith heat transfer.
- Applied PINNs and numerical methods to analyze multi-phase heat equations.
- Collaborated with validation team at the final stage to verify results.

Additional

- **Links:** my-portfolio | github.com/lubacareer | github.com/lubani | linkedin.com/in/luba-ira
- **Interests:** Programming, Mathematics, Yoga.
- **Languages:** English, Hebrew, Russian (all fluent).