

# Sapir Shamay

Software Engineer | Gen AI Geek



Software engineer with over a decade of experience in the tech industry, specializing in software development and data analysis. I contributed to the development of a machine learning model for fraud detection by designing and implementing the features used by the model. Recently, I've been diving into the world of Generative AI, with a clear goal of specializing in this fascinating and fast-evolving field. I'm eager to join projects that combine cutting-edge innovation with real user value, while bringing strong communication skills, creative thinking, and a high standard of excellence to every team I join.

## CONTACT

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## EDUCATION

2018 – 2022

### BEN-GURION UNIVERSITY

BSc in Software and Information System Engineering (Avg – 83)

2025 – Current

### UDEMY

LLM ENGINEERING: MASTER AI, LARGE LANGUAGE MODELS & AGENTS

## SKILLS

- Python
- Generative AI (RAG, prompt engineering, agent design – beginner/intermediate level)
- AI/ML Tools: Scikit-learn, Pandas, NumPy, TensorFlow (basic)
- DevOps: Git, Jenkins
- Cloud Platforms: AWS, Azure
- DBs: PostgreSQL, SQL Server
- AI & Data Tools: Databricks, PySpark, Jupyter Notebooks
- Technical Storytelling – explaining complex topics in a simple, engaging way
- Team Collaboration & Cross-functional Communication
- Fast Learner with a passion for cutting-edge technologies

## LANGUAGES

- English
- Hebrew

## WORK EXPERIENCE

### Simplex (by Nuvei)

2021–2025

#### Senior R&D analyst

- Tech lead and backend engineer in the company's payments infrastructure, responsible for mission-critical components powering hundreds of thousands of transactions a month.
- Designed and implemented high-impact, cross-team features in Python, deployed to internal payment gateways at scale, leading to a 0.5% uplift in conversion rate.
- Led the full technical lifecycle: authored design docs, set Git flow standards, enforced PEP8 with linters, increased test coverage by 5%, and streamlined the code review pipeline.
- Working across multiple environments including production, simulation, and a custom challenger staging environment – allowing safe traffic mirroring and performance benchmarking before promoting to prod.
- Used tools like Datadog, New Relic, Redash, and Amplitude for monitoring, logging, and product analytics.
- In rare cases, executed rollbacks based on performance gaps identified via large-scale SQL analysis using DataGrip.
- Built internal reusable Python packages to accelerate development.
- Worked with both relational (PostgreSQL, SQL Server) and graph databases (Neo4j, Amazon Neptune).
- Collaborated with DevOps on CI/CD pipelines (Jenkins), and ensured compliance with GDPR and best practices in data handling.
- Led onboarding of 4 new data analysts: built structured learning paths, delivered training sessions, and orchestrated their integration.
- Acted as Scrum Master, prioritizing tasks with leadership and assigning work aligned with both urgency and personal growth trajectories.

### Wix

2019–2020

#### Software Engineer

- Frontend engineer in the Wix's Editor team, contributing to 6 high-scale products (1M+ MAUs each).
- Led end-to-end feature development in a Agile environment, collaborating with product and design.
- Delivered performant, accessible, and cross-browser features using React, vanilla JavaScript, and CSS, with a strong emphasis on component reusability and design system integration via Storybook.
- Resolved critical edge-case bugs by implementing low-level polyfills, ensuring robust support across diverse browsers.
- Worked with CI/CD pipelines, Jest and Cypress for testing, and utilized Feature Flags and A/B Testing via internal tooling to enable data-driven rollouts.

### MAMRAM, IDF

2013–2015

#### Software Developer, Team Leader – Captain

- Led, designed, and built cross-organizational software solutions for the central HR division of the IDF, affecting tens of thousands of users.

#### Technical PM, Team Leader – Lieutenant

2012–2013

- Managed a squad of 3–6 developers, QA, and PMs, maintaining the main IDF HR platform written in a Hebrew procedural language compiled to PL/I on an IBM mainframe.

## LLM ENGINEERING: MASTER AI, LARGE LANGUAGE MODELS & AGENTS

Hands-on training in LLMs and AI agents, including:

- RAG implementation, function calling, and prompt engineering
- Projects: AI brochure generator, multi-modal support agent, code assistant
- Focus on LLM evaluation, optimization, and real-world applications