

Software Engineering Leader and AI Engineer with a Ph.D. in Mathematics from the University of Michigan. Experienced in designing and leading large-scale system architectures, production ML and data pipelines, and enterprise-grade AI solutions. Former Staff Software Engineer at Google with a track record of mentoring engineers, driving technical direction, and collaborating with researchers.

EXPERIENCE

AI Engineer

May 2025 - Present

TWG.ai

Delivering high-performance AI solutions to solve real business problems. Building SOC 2 compliant AI systems grounded with proprietary business knowledge. Enterprise-grade AI applications for diverse industry clients. Designed AI evaluation system architecture. Led database design and schema modeling. Established CI/CD pipelines and AI-Ops practices.

PythonLangGraphAzureCI/CDAI-OpsOpenAIAnthropicFastAPIRedis

Database Design

Staff Software Engineer & Tech Lead (L6)

2018 - May 2025

Google · Ads

Tech Lead of a mission-critical, ML-based prediction engine serving billions of daily queries to forecast ad clicks, conversions, and cost. Architected high-performance, low-latency system with strict SLAs at massive scale. Led team in data pipelines, feature engineering, and real-time ML inference. Built GenAI/Agentic systems for code development and reasoning.

C++PythonML PredictionLow-LatencySQLProtocol BuffersGenAI

Founder & Head Consultant

2015 - 2018

GP Group LLC

Software engineering consultancy. Clients: Amcor, Karamba Security, FireLayers (ProofPoint). Malware detection, browser security APIs, custom BI solutions. Technical due diligence for investors.

PythonDjangoMongoDBAndroid

Sr. Software Developer & Team Lead (Captain)

2010 - 2014

Israel Defense Forces (IDF)

Led team of 8 engineers. Developed solutions on networked systems. Spearheaded internal coding bootcamp. Research in OS, networks, security, and mobile technologies.

PythonCLinuxSecurity

Engineer (Lieutenant)

2007 - 2010

Israel Defense Forces (IDF)

Performance analysis of complex systems. Assembled new tools resulting in exceeded KPIs.

Instructor

2005 - 2017

University of Michigan & Technion

Taught Calculus, Linear Algebra, and C-language. Created GRE Math MOOC (SubjectMath.com) with 80 hours of materials and 12,140+ students.

EDUCATION

University of Michigan, Ann Arbor

Ph.D. in Mathematics

2015 - 2018

NSF-supported research

Technion – Israel Institute of Technology

M.S. Mechanical Engineering

Summa Cum Laude, GPA 99.9/100

B.S. Mechanical Engineering

Summa Cum Laude, 1st in class, Valedictorian

B.S. Mathematics

Summa Cum Laude, 1st in class, Valedictorian

2003 - 2007

SKILLS

AI & Machine Learning

Agentic AI, LangGraph, LLM APIs (OpenAI, Anthropic, Google), GenAI Systems, Time Series Analysis

Languages & Frameworks

Python, C++, C, SQL, FastAPI, Django, Protocol Buffers

Infrastructure

Azure, GCP, Docker, Redis, MongoDB, Linux, Git

Data Engineering

Pandas, Polars, Flume, SQL, ML Pipelines

AWARDS

- ★ Top performance reviews & accelerated promotions at Google
- ★ National Mathematics Olympiad Medalist
- ★ National Public Speaking Contest Winner
- ★ Two-time IDF Excellence Award
- ★ Top 20 Most Promising Students in Israel (Globes)
- ★ National Award from Israeli Parliament
- ★ IDF Officers' Training with Honors
- ★ WSEAS Conference Speaker (Athens)