Gilad Pagi

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Software Engineering Leader & AI Engineer | Ph.D. Mathematics

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.

Python   LangGraph   Azure   CI/CD   AI-Ops   OpenAI   Anthropic   FastAPI   Redis
Database Design

Staff Software Engineer (L6)
2018 - May 2025
Google

Led design and development of ads performance predicting system. Large-scale, low-latency back-end development. Data analysis pipelines. GenAI/Agentic systems for code development and reasoning.

Python   C++   SQL   ML/AI   Protocol Buffers

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.

Python   Django   MongoDB   Android

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.

Python   C   Linux   Security

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)