

Gilad Pagi

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

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AI Engineer and Software Engineering Leader with a Ph.D. in Mathematics from the University of Michigan. Experienced in building high-performance, enterprise-grade AI solutions, large-scale distributed systems, and leading engineering teams. Former Staff Software Engineer at Google with expertise in GenAI/Agentic systems, back-end development, and data analysis.

EXPERIENCE

AI Engineer

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.

Python LangGraph Azure OpenAI Anthropic FastAPI Redis

May 2025 - Present

Staff Software Engineer (L6)

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

2018 - May 2025

Founder & Head Consultant

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

2015 - 2018

Sr. Software Developer & Team Lead (Captain)

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

2010 - 2014

Engineer (Lieutenant)

Israel Defense Forces (IDF)

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

Instructor

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.

2007 - 2010

2005 - 2017

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)