Tom Yedwab

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SUMMARY

Experienced leader in software development and data science who excels at building, mentoring, and leading agile, effective teams. Passionate about diving deep into AI/ML projects with societal impact, leveraging my extensive background in data engineering, machine learning, and large-scale system architecture to drive innovation and positive change.

20+ years	Software development
9 years	Engineering leadership
8 years	Data science

Skills: Python, Go, Java, C, Javascript, SQL, R. & Google Cloud Platform (AppEngine, Cloud Run, GKE), AWS ◊ Data science: visualization, governance ◊ Machine learning: NLP, Deep Learning, PyTorch, LLMs & Leadership, management, mentorship, hiring, team building

WORK EXPERIENCE

Khan Academy

SENIOR ARCHITECT, DATA Jan 2020 - Present

Recent projects: Design & implementation for evaluation framework for Khanmigo, a GPT-4-based AI launch \diamond Production tracing using LangFuse ♦ Research on LLM training & inference using PyTorch, LangChain and Weights and Biases, and graph RAG methods using neo4j to ground LLMs with content and user knowledge.

Hired & led Data Infrastructure team of 8 engineers \diamond Architected & shipped eventing system scaling to 200M+ events/day in Go using Google Cloud AppEngine, Pub/Sub, Dataflow and BigQuery \diamond Deployed & managed Airflow on **GKE** for pipeline orchestration \diamond Created technical roadmap for A/B testing using GrowthBook Worked closely with Engineering Management, Data Governance Panel, Data Insights Group & senior leadership to advance critical projects \diamond Steered & approved technical decisions across data platform overseeing instrumentation, ETL, disaster recovery, & self-service dashboards.

💙 Khan Academy

ENGINEERING MANAGER Jan 2015 - Jan 2020

Hired & managed Content Platform team of 9 engineers \diamond Developed team members from interns to staff engineers through mentorship, regular feedback and active career development \diamond Architected & shipped localized course management system using **React.js**, **Python** and **Kotlin** \diamond Stabilized & scaled translations backend using Crowdin to support 70+ languages and millions of strings \diamond Delivered product roadmap \diamond Recruited for & managed summer internship/fellowship programs.

DATA SCIENTIST & ENGINEER Jun 2012 - Jan 2015

Shipped multiple A/B tests to optimize an MLbased personalized learning platform \diamond Analyzed product data using Google BigQuery, Hive, Hadoop, R, & Python \diamond Refactored ML-based recommendations system for performance & stability.

SOFTWARE ENGINEER Oct 2011 - Jun 2012

Designed, built, and maintained the Khan Academy content management system in Python, jQuery and Backbone.js.



Cryptic Studios

Programmer Sep 2006 - Oct 2011

Prototyped and implemented game engine support for user-generated playable levels (called "The Foundry") in C for "Star Trek Online" (2010) and "Neverwin-eration system used to populate maps and generate thousands of unique missions in "Star Trek "Champions Online" (2009).

WORK EXPERIENCE (CONT.)

Linden Lab

SOFTWARE DEVELOPER

Apr 2005 - Sep 2006

Drove multiple projects to improve the capabilities and render performance of **OpenGL** graphics engine in **C** for "Second Life", including interactive soft-body physics, realistic lighting and sky simulation. \diamond Redesigned the World Map system with automating batch rendering.

Blue Shift

GRAPHICS PROGRAMMER 2004

Developed 3D graphics engine features in **C** and Playstation 2 assembly for several credited games.

Berkeley Scientific Journal

BUSINESS MANAGER & ILLUSTRATOR 2001 - 2002

Managed business operations, contributed articles and designed cover illustrations for the journal.

Xdrive

JAVA PROGRAMMER (INTERN) 1999

Improved administrative tools for web-based file storage service.

EDUCATION

University of California, Berkeley

MASTER OF INFORMATION AND DATA SCIENCE *Completed 2016*

Comprehensive two-year professional degree in the School of Information \diamond Included coursework in statistics, field experiments, **machine learning**, **NLP**, data engineering using **Spark**, data visualization using **D3** and data ethics.

University of California, Berkeley

BACHELOR OF SCIENCE, MATHEMATICS & COGNITIVE SCIENCE Completed 2004