

Joseph Kim

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EXPERIENCE

DeepLearning.AI - Mentor, Tester

April 2024 - Present

- Providing academic support for students enrolled in DeepLearning.AI courses, primarily in the Mathematics for Machine Learning and Data Science Specialization.
- Reviewing, providing feedback on, and making improvements and fixes to new course content.

Google - Software Engineer

June 2021 - March 2023

- Led a cross-team project for large code migration efforts within Google Ads, improving codebase health, and reducing build deployment times by over 10%.
- Managed the migration of machine learning models for automated agent assignment of Cases by coordinating cross-team efforts, utilizing internal tools, and generating training data.
- Developed a language selection feature for Google Ads, handling the entire full-stack development from backend Java APIs to frontend UI in Dart, deployed for live use by support agents.
- Received 2 peer bonuses for significant contributions to codebase optimization and was awarded a badge for being a top 1000 code change submitter among all Google employees in 2022.

Codecademy - Content Contributor

June 2018 - April 2021

- Authored comprehensive lessons, quizzes, projects, and articles for SQL and Python courses.
- Produced review cards and questions for the Codecademy Go app, downloaded by 1M+ learners.

PROJECTS

Denoising Diffusion Probabilistic Models (DDPM) in PyTorch | *Python, PyTorch*

- Implemented a diffusion probabilistic model in PyTorch for image generation.
- Link to project: <https://github.com/josephkim/DDPM-diffusion>

Super PolySpawn Wars | *C#, Unity*

- Developed a 2D space-shooter game using Unity and C#, featuring unique boss attack patterns and power-ups such as speed boosts, spread-shots, shields, and 1-ups.
- Link to project: <https://github.com/josephkim/super-polyspawn-wars>

Sudoku Solver | *React, JavaScript, HTML, CSS*

- Created a React application that solves Sudoku puzzles using Brute Force and Dancing Links algorithms.
- Link to project: <https://github.com/josephkim/sudoku-solver>

TECHNICAL SKILLS

Python, Java, SQL, pandas, NumPy, TensorFlow, Keras, PyTorch

EDUCATION

Pennsylvania State University

2011 - 2015

Bachelor of Science in Mathematics, Minor in Physics

CERTIFICATES

Deep Learning Specialization (DeepLearning.AI)

2024

Mathematics for Machine Learning and Data Science Specialization (DeepLearning.AI)

2024

Machine Learning Specialization (Stanford University, DeepLearning.AI)

2022