# 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/josephtkim/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/josephtkim/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/josephtkim/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