Edgar Lin

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https://github.com/spagovir/

Education

University of Chicago — 2022
B.A. in Mathematics w/ Honors — 3.41/4.0 GPA
Coursework in numerical methods. Graduate coursework in stochastic calculus and in functional analysis.

Machine Learning Alignment Bootcamp — 2022
Implemented modern DL architectures in vision, language, and RL in PyTorch. Did a final project implementing a Decision Transformer.

Experience

Audacy Corporation — June-August 2016
DevOps Engineer Intern
Supported software operations by building tools to automate development & Unix administration tasks ∘ Containerized MEAN + RabbitMQ stack applications using Docker ∘ Built Jenkins pipelines for automated continuous testing using Mocha and delivery using Git.

UChicago Mathematics — June-August 2019
Research Experience for Undergraduates
Did reading and research on algebraic topology and fixed point theory.

Charter Cities Institute — March-August 2020
Economics Research Assistant
Conducted a statistical analysis of the development impacts of port investment using nighttime-lights data.

Skills

Programming: Proficient: Python, Haskell, Java. Familiar: C#, C++, Julia, Elm.
Languages: Fluent: English. Conversational: Mandarin Chinese.
Other: PyTorch, HTML/CSS Webdesign, LaTeX, Docker, Git, Unix (Red Hat).

Projects

Monadic MCMC: Implemented a embedded domain specific language in Haskell for probabilistic programming and inference using the Metropolis-Hastings algorithm.
Finite Elements: Implemented an Elm widget that visualizes finite element analysis on 2D domains. (contd.)

Projects (contd.)

Curry-Howard Explainer: Wrote an explainer of the Curry-Howard correspondence with Haskell code illustrating its computability.

Chain-of-thought self-consistency with verifiers: In Python, used adaptive importance sampling from a search tree to combine verifiers with chain-of-thought self-consistency in order to improve the accuracy of GPT-3 in solving math word problems.