

Isaac Restrck

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EDUCATION

The University of Chicago

Chicago, IL

Dual B.S. & M.S. in Computer Science with a specialization in machine learning (for the B.S.)

Dec 2023

Relevant Coursework: Algorithms, Neural Networks, Distributed Systems, Parallel Programming, Networks

PROGRAMMING SKILLS

Languages & Libraries: Python(NumPy, PyTorch, Flask), Go, Swift, C, Rust, SQL, React.js, TypeScript, Java

EXPERIENCE

Capitol AI

New York, NY

ML Engineer

Jan 2024 - May 2024

- Implemented functionality to summarize YouTube video transcripts, integrating results into AI-generated articles.
- Refactored the image styling pipeline, added custom SDXL LoRAs, enabling a new logo creation mode.
- Led a product-wide effort to reduce errors, lower latency & increase stability through systematic bug management.
- Optimized prompt effectiveness by refining suggestions in the prompt remix bar for a more professional tone, consistently iterating to improve subjective performance across multiple use cases.

University of Chicago Data for the Common Good

Chicago, IL

Software Engineer Intern

Jul 2023 - Oct 2023

- Developed a feature using the GPT-4 API to summarize complex eligibility requirements for medical studies, enabling potential patients to self-assess eligibility.
- 100+ studies summarized every day through an AWS Lambda function that loads summaries into a database.

Amazon Web Services

Seattle, WA

Software Development Engineer Intern

Jun 2022 - Sep 2022

- Introduced team-specific behavioral customization to an internal ticketing tool used by 3+ teams.
- Integrated and leveraged AWS services such as Lambda, SQS, and DynamoDB using boto3 and Step Functions to streamline tool functionality and automate workflows, enhancing tool efficiency.

Jason Salavon Studio LLC

Chicago, IL

Junior Machine Learning Developer (part time)

Nov 2021 - Jun 2022

- Collaborated 10 hours per week with a small team in a technical art studio to create visual art with deep learning.
- Enhanced a digital rendering application to animate results from 1000+ StyleGAN-generated frames efficiently.
- Incorporated PyTorch & Tensorflow for models, and PIL, NumPy, & OpenCV for image manipulation.

PROJECTS

[MealTracker](#)

Github

- Built an intuitive iOS meal-tracking app, enabling users to create, update, and delete meals from a list of meals that users can also filter and search.
- Implemented AI-backed functionalities to auto-generate meal ideas from text via GPT-4 and DALL·E 2 APIs.

Feb 2020 Uncommon Hacks Hackathon

Chicago, IL

- Engineered application that utilized a pre-trained computer vision model and the public USDA API to analyze nutritional content of food.
- Initialized a MongoDB Cloud Atlas database and a Flask API (hosted on Google Cloud) to connect to the database, [awarded "Best Use of Google Cloud"](#).