

Milo Chase

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EDUCATION

University of Chicago

Chicago, IL | Jun 2023

B.S. COMPUTER SCIENCE WITH HONORS SPECIALIZATION IN MACHINE LEARNING

GPA: 3.74/4.00 | DEAN'S LIST 2019-2020, 2021-2022

Graduate-level coursework: Deep Learning; Database Systems; Usable Security and Privacy

Coursework: Machine Learning; Abstract Linear Algebra; Computer Architecture; Computer Systems; Computer Security; Programming Languages; Discrete Mathematics; Theory of Algorithms; Complexity Theory

WORK AND RESEARCH EXPERIENCE

AMAZON | SOFTWARE DEVELOPMENT ENGINEER

Portland, OR | Aug 2023-Present

- Developing high volume (1000+ TPS) backend systems and high traffic frontend websites (millions of daily visits).
- Mentoring a junior developer to help navigate the Amazon ecosystem and support early career development.
- Trained to become a security certifier to audit apps touching critical data and help keep a high bar on AppSec.

CHICAGO HUMAN + AI (CHAI) LAB | RESEARCH ASSISTANT

Chicago, IL | Dec 2021 – Dec 2023

- Collaborated with Dr. Chenhao Tan and others to develop and apply NLP techniques and a novel LLM-based metric of uniqueness to analyze Donald Trump in the context of presidential politics and language.
- Helped write a paper and submitted to journals pending their response, and posted to [arXiv](#).
- Built a [scraper](#) using Python for the American Presidents Project archive to create a dataset with speaker tags.

AMAZON | INTERN

Portland, OR | Jun 2022 – Sep 2022

- Designed model analysis and monitoring dashboard for the partner services Machine Learning team.
- Developed ETL processes operating on 10 billion+ rows of data using Scala and Spark and internal Big Data tools.
- Engineered extensibility into the product by using AWS CDK to define all cloud infrastructure as code.
- Learned from two mentors: a Developer and a Data Scientist, gaining knowledge and insights into both fields.

CURRICULUM ASSOCIATES | INTERN

Billerica, MA | Jun 2021 – Sep 2021

- Designed and maintained UI test automation suite using Selenium and JavaScript to ensure quality.
- Researched and presented a new process for selecting web elements in Selenium which my team implemented.
- Learned and worked with Node.js and Docker as they are used for CA's product suite.

PROJECTS

MIXGEN [↗](#)

FLASK, REACT-REDUX, POSTGRESQL, GPT

A web application leveraging LLMs to automatically generate music playlists based on a natural language prompt. After connecting to Spotify, MixGen will produce a list of candidate songs from the user's library based on their description. The user can then choose the songs they like and MixGen will create the playlist for them directly in their spotify account.

CONNECTFOUR AI [↗](#)

RACKET, ARTIFICIAL INTELLIGENCE, FUNCTIONAL PROGRAMMING

A connect-four AI bot which utilizes the minimax algorithm with a depth of 5. Maybe has beaten me before..

MYSHELL [↗](#)

C, COMPUTER SYSTEMS, SHELLS

A homemade shell. Some key features include batch scripting support, output file redirection, and command chaining.

SKILLS

Languages: C, Python, TypeScript, Java, Rust, SQL

Technologies/Frameworks: React-Redux, Flask, Node.js, PyTorch, Docker, Linux, Git, AWS Cloud Technologies.

Other: Experience with Agile, Microsoft Office Suite, solid at chess.