

EDUCATION

University of Illinois Urbana-Champaign

Master's in Computer Science (AI Concentration)

GPA: 4.0

- **Relevant Courses:** Deep Learning for Computer Vision, Artificial intelligence, Text Information Systems

Purdue University in Indianapolis

Bachelor of Science in Computer Science Honors (Minor in Mathematics)

GPA: 3.6

- **Awards/Scholarships:** William M. Plater & Honors Medallion, Received \$85,000 in Scholarship, Women History Month Award
- **Relevant Courses:** Data Science, Data Visualization, Machine Learning, Statistics, and Advanced Database Oracle Programming

SKILLS AND INTERESTS

Programming Languages

Python, R, SQL/PLSQL, C#, C/C++, \LaTeX , Oracle, Unix command line, MATLAB, SAS, Java

Machine Learning

Scikit-learn, TensorFlow, Keras, Neural Networks, Decision Trees, Random Forests, SVM, Clustering Algorithms (e.g., K-Means, DBSCAN), Dimensionality Reduction (e.g., PCA), Natural Language Processing

Data Science & Miscellaneous Technologies

Google Colaboratory, Jupyter Notebook, Unity, AWS (S3, CloudWatch, Cost Explorer, Lambda, Boto3), Tableau, Azure Data Studio, Git

WORK EXPERIENCE

Data Science Intern

OFR Telecom

Aug 2023 — Dec 2023

Delhi, India

- Applied data-driven insights to enhance the efficiency of supply chain management, resulting in a 20% improvement in inventory optimization.
- Implemented and compared time series models and machine learning models (XGBoost, LSTM) to achieve improvement in forecast accuracy, measured by a reduction in Mean Absolute Error (MAE) from 12% to 10%.

Cloud Engineer Intern

Sallie Mae

May 2023 — Aug 2023

Indianapolis, IN

- Refactored 2,000 lines of C# code into Python, resulting in a reduction in execution time.
- Developed a console application that calculated expenses associated with Green Accounts, resulting in a 15% reduction in cost.
- Leveraged AWS services (S3, CloudWatch, Cost Explorer, Lambda, Boto3) to proactively address emerging technological requirements, enhancing operational efficiency.

Research Fellowship

CI Compass

Jan 2023 — May 2023

Indianapolis, IN

- Researched the data life-cycle within the NSF Major Facility MagLab and suggested improvements to their data transfer systems.
- Collaborated in workshops covering topics such as High-Performance Computing, Cloud Services, and FAIR Data.

Data Engineering

ShipSigma

Aug 2022 — Dec 2022

Indianapolis, IN

- Designed the data pipeline architecture using Amazon S3, AWS, Snowflake, and Azure, enabling the processing of 0 to 100,000 daily data points.
- Automated the data flow, achieving an accuracy rate of 94% and identifying and resolving coding issues and data exceptions.
- Ingested data from various sources and deployed over 4 Tableau dashboards using SQL and Azure.

PROJECT AND LEADERSHIP EXPERIENCE

GPT Architecture Implementation

Python, PyTorch, Natural Language Processing (NLP)

Sep 2024

- Developed a GPT model tutorial in PyTorch, training on the Tiny Shakespeare dataset with 500,000 characters across 32 epochs.
- Achieved a streamlined model implementation suitable for learning purposes, without data parallelism.

Teaching Assistant (TA) | Purdue School of Science

CSCI 24000 Computing II

Aug 2021 — May 2022

- Managed and organized coursework, grades, and assignments for 30 students on Canvas.
- Conducted weekly office hour sessions to assist students with C++ and Java concepts and provide guidance on assignments.

CERTIFICATIONS

AWS Machine Learning Engineer Nanodegree | Udacity Nanodegree Program

Dec 2023