

Vishruth Raj

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EDUCATION

University of Illinois – Urbana Champaign

BSLAS Computer Science + Linguistics

Expected Graduation Date: June 2025

Champaign, IL

- GPA: 4.0/4.0
- Relevant Coursework: Intro to CS 2, Discrete Structures, Calculus 3, Intro to Language Science

Carnegie Mellon Executive Education

June 2022

Natural Language Processing

- A 10-week course that taught fundamental NLP concepts such as Neural Networks, LSTMs, RNNs, NER, POS Tagging, and creating Word Embeddings

WORK EXPERIENCE

Hack4Impact

Sep 2022 – Present

Software Developer

Champaign, IL

- Collaborated with a team to develop a web app that enables underserved Filipino students to get jobs
- Created a robust front-end using React, Javascript, CSS, and HTML
- Built a backend that enabled management of hundreds of user accounts using NestJS and Firebase

Sorcero

Sep 2021 – May 2022

AI Engineering Intern

Remote

- Developed a novel summarization framework that generated summaries 20x faster than the old framework
- Researched, tested, and deployed several summarization models using Huggingface Transformers, Pytorch, and Tensorflow
- Evaluated the models to ensure their quality using BLEU, ROUGE, and developing a unique metric
- Ensured proper deployment by utilizing Git and GitLab

University of Wisconsin – Green Bay

June 2021 – August 2021

Research Intern

Remote

- Researched and developed an automatic weather forecasting system using natural language generation
- Used AWS SageMaker to test out various Pytorch and Tensorflow models
- Read several research papers and articles to identify the best methods to develop the system

PROJECTS

NFL Draft Pick Grader

August 2022

Personal Project

- Launched a full-stack web application that grades NFL draft picks based on tweets
- Used Huggingface Transformers to fine-tune pre-trained BERT model and deployed on AWS Lambda
- Crowdsourced the labelling of 1000+ data by deploying a webapp
- Managed the information of thousands of players using a Flask backend and MySQL database

SKILLS & INTERESTS

- **Skills:** Python, Java, React, Flask, NodeJS, Calculus, Linguistics, Physics, Chemistry, Natural Language Processing (NLP), AI/ML, Tensorflow, Pytorch, Huggingface Transformers, Research, MySQL, SQL, CSS, HTML5, Data structures and algorithms, Data Analysis, Django, Critical Thinking, Problem-Solving