

Vishruth Raj

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EDUCATION

University of Illinois – Urbana Champaign

BS Computer Science and Linguistics; GPA: 3.95

Graduation Date: May 2026

Champaign, IL

- **Relevant Coursework:** Algorithms, Data Structures, Systems Programming, Database Systems, Programming Languages and Compilers, Computational Linguistics, Discrete Structures, Computer Architecture

EXPERIENCE

Hack4Impact: InclusiveStem

September 2023 – January 2024

Technical Lead

Champaign, IL

- Built a platform aiming to become the world's largest online library for accessible information in the world
- Architected a performant upload service which could handle uploads of over 50GB without compromising user experience using AWS S3, Lambda, and EC2
- Led a team of 5 developers to successfully build and deploy the platform
- Secured six development projects and generated \$13,000 in contracts by spearheading outreach campaigns

GrammaTech

May 2023 – August 2023

Software Engineering Intern

Remote

- Optimized python code and achieved an 80% reduction in CPU usage by resolving ineffective multiprocessing
- Reduced package size by 70%, improving system performance, by updating buggy Docker containers
- Developed and implemented Python tools to enhance QA infrastructure, improving overall testing process

Hack4Impact: Meraki Foundation

Jan 2023 – May 2023

Software Developer

Champaign, IL

- Empowered government officials to effectively assess and enhance more than 20,000 preschools by building a powerful data visualization platform
- Visualized more than 2 million data points using PostgreSQL and ReactJS, enhancing data-driven decision-making
- Automated ingestion and validation of data using SQL and Javascript, leading to a 95% reduction in the manhours necessary to managing new data

Sorcero

Sep 2021 – May 2022

AI Engineering Intern

Remote

- Spearheaded an innovative summarization algorithm, achieving a 2,000% speedup in summary generation using Python
- Researched cutting-edge LLMs, developing a model which performed on par with state of the art medical summarization models using Pytorch and Huggingface

PROJECTS

NFL Draft Pick Grader

January 2023

Personal Project

- Launched an innovative web app grading NFL draft picks based on tweets using Python and ReactJS
- Deployed fine-tuned LLM using AWS Lambda and S3, reducing deployment costs by 75% while maintaining performance at scale

SKILLS & INTERESTS

- **Languages:** Python, Java, Javascript, Typescript, C++, C, CSS, HTML5, SQL
- **Frameworks:** React, Flask, Django, NodeJS, NestJS, SolidJS
- **Tools:** MySQL, PostgreSQL, Firebase, MongoDB, Docker, Tensorflow, Pytorch, Huggingface, AWS, Linux, Git
- **General Skills:** Natural Language Processing (NLP), AI, ML, Research, Data Structures and Algorithms, Data Analysis