

# Vishruth Raj

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## EDUCATION

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### University of Illinois – Urbana Champaign

Graduation Date: May 2025

BS Computer Science and Linguistics; GPA: 4.0/4.0

Champaign, IL

- **Relevant Coursework (by Summer 2024):** Algorithms, Data Structures, Systems Programming, Database Systems, Computational Linguistics, Discrete Structures, Computer Architecture, Intro to Syntax

## EXPERIENCE

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### 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

### Hack4Impact: KadaKareer

Aug 2022 – Dec 2022

Software Developer

Champaign, IL

- Developed an online education platform, enabling 100+ underserved Filipino youth to gain valuable career experience using ReactJS
- Create a learning management system for 20+ companies to host courses using NestJS and Firebase
- Sourced 3 new projects, generating \$7000 in development contracts

### 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

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### 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

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- **Languages:** Python, Java, Javascript, C++, CSS, HTML5, SQL
- **Frameworks:** React, Flask, Django, NodeJS, NestJS
- **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