Vishruth Raj

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EDUCATION

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

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
- Created 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

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, Javscript, Typescript, 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