# Vishruth Raj

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## EDUCATION

**University of Illinois – Urbana Champaign**                    **Graduation Date: May 2026**
*BS Computer Science and Linguistics; GPA: 3.95*                                        *Champaign, IL*

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

## EXPERIENCE

**Klaviyo**                                                                      June 2024 – Aug 2024
*Software Engineering Intern*                                                            *Boston, MA*

- Extended functionality of data ingestion system **reducing data loss by 20%** using Apache Kafka, AWS DynamoDB, and Python
- Orchestrated microservice deployment that could sustain a throughput of **2.5 million messages per minute**, using Kubernetes and Terraform
- Implemented continuous delivery of microservices onto Kubernetes **improving resiliency** and saving man hours, using Argo and AWS EKS

**Hack4Impact: InclusiveStem**                                            Sep 2023 – Jan 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 – Aug 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

## PROJECTS

**NFL Draft Pick Grader**                                                                  Jan 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

- **Languages:** Python, Java, Javscript, 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, Kubernetes, Terraform, Argo
- **General Skills:** Natural Language Processing (NLP), AI, ML, Research, Data Structures and Algorithms, Data Analysis