

Vishruth Raj

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EDUCATION

University of Illinois - Urbana Champaign

Champaign, IL

Professional Masters CS

Graduation Date: May 2026

BS Computer Science and Linguistics; GPA: 3.95/4.0

Graduation Date: May 2025

Relevant Coursework: Algorithms, Data Structures, Machine Learning, Systems Programming, Database Systems, Networks, Programming Languages and Compilers, Computer Architecture

EXPERIENCE

Roblox

May 2025 - Aug 2025

SWE Intern

San Mateo, CA

- Researched and implemented an on-premise database service with forecasted savings of **\$350,000/year** in cloud costs
- Deployed a StarRocks OLAP cluster capable of scanning **20 GB/s** and ingesting **50+ MB/s** using HashiCorp Nomad and Consul
- Engineered a control plane service to orchestrate a **40+ node** StarRocks cluster using Go

Klaviyo

June 2024 - Aug 2024

SWE Intern

Boston, MA

- **Reduced data loss by 20%** by improving robustness of data ingestion pipelines using Apache Kafka, AWS DynamoDB, and Python
- Orchestrated deployment of a data ingestion pipeline 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

GrammaTech

May 2023 - Aug 2023

SWE 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 | Python, React, AWS

Jan 2023

- 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

TECHNICAL SKILLS

Languages: Python, Go, Java, Javascript, Typescript, C++, C, CSS, HTML5, SQL

Technologies: MySQL, PostgreSQL, Firebase, MongoDB, ClickHouse, Docker, Pytorch, AWS, Linux, Git, Kubernetes, Argo, StarRocks, HashiCorp Nomad, Consul, Vault, Terraform, Grafana

Frameworks: React, Flask, Django, NodeJS, SolidJS