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 **$500,000/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, Javscript, 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