# Vaishak Menon

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## PROFESSIONAL SUMMARY

Motivated and adaptable Computer Science graduate student with hands-on experience deploying cloud-based solutions to Google Cloud Platform (GCP) using Terraform, and managing applications on Kubernetes.

Team player with strong collaboration and communication skills, demonstrated through impactful teaching and mentorship as a Teaching Assistant. Brings practical industry knowledge from multiple infrastructure-focused internships, with a strong commitment to continuous learning and professional growth.

## WORK EXPERIENCE

**University of Alabama at Birmingham**                                                      **Birmingham, Alabama**

*Computer Science Teaching Assistant*                                                          *Aug 2022 - May 2025*

- Performed as Teaching assistant, collaborating with professors to support instructions in Data Structures and Algorithms (Python/Java) and Systems Programming (C).
- Evaluated and delivered constructive feedback on 400+ student assignments per semester, consistently maintaining a turnaround time under 72 hours.
- Mentored students in core programming concepts, guided them through problem-solving strategies, and provided detailed code reviews to enhance their technical proficiency and confidence.

**Maven Wave Partners**                                                                                    **Chicago, IL**

*Cloud Infrastructure Team Intern*                                                                *Jun 2023 - Aug 2023*

- Developed detailed training documentation on YAML configuration and Terraform provisioning, enabling new employees to efficiently adopt and implement Infrastructure as Code (IaC) practices within the organization.
- Designed interactive demonstrations simulating real-world deployment scenarios and best practices for cloud technologies, providing hands-on learning experiences that significantly accelerated the onboarding process.

*Cloud Infrastructure Team Intern*                                                                *Jun 2022 - Aug 2022*

- Optimized Terraform configurations to establish a scalable and resilient Google Cloud Platform (GCP) environment, ensuring adherence to industry best practices and enhancing deployment reliability.
- Developed and standardized deployment documentation and processes, promoting consistent, efficient, and maintainable infrastructure management across the organization.

*Cloud Platforms Intern*                                                                                  *Jun 2021 - Aug 2021*

- Collaborated with the Infrastructure team to support the phased implementation of a Google Cloud Platform (GCP) environment leveraging Kubernetes for scalable orchestration.
- Designed and implemented a secure, containerized microservice using Kubernetes, facilitating seamless and reliable data exchange between the provider and third-party partners.

## EDUCATION

**University of Alabama, Birmingham**                                                        **Birmingham, Alabama**

*B.S in Computer Science*                                                                     *Graduation Date: Apr 2024*

*M.S in Computer Science*                                                                    *Graduation Date: May 2025*

## PROJECTS

**GPT From Scratch**
- Developed a large language model, decoder-only flash transformer architecture using Python. One version of the model is available on Huggingface.

**Music Genre Classification**
- Developed a CNN-based model to classify spectrogram representations directly, achieving a notable accuracy increase (+5–10%) over traditional approaches (k-NN, SVM, Random Forest).

## RELEVANT COURSEWORK & SKILLS

**Certifications:** Certified Kubernetes Administrator, AWS Certified Cloud Practitioner

**Skills:** Docker, Kubernetes,Terraform, Google Cloud Platform, MongoDB, C, Python, Java, JavaScript, React, PSQL

**Coursework:** Machine Learning, Deep Learning, Natural Language Processing, Cloud Computing, Computer Vision