

# Vaishak Menon

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## PROFESSIONAL SUMMARY

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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

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### 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

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### 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

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### 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

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