

# AHAMED USMAN

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## Computer Science Intern

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I am a Computer Science student with a strong foundation in software engineering, cloud computing, and DevOps practices. I have hands-on experience with infrastructure-as-code, CI/CD pipelines, containerization, and cloud platforms. With a keen interest in automation, system reliability, and scalable application delivery, I enjoy solving complex problems and contributing to efficient, production-ready solutions. I'm eager to learn, adapt, and grow as a developer in an agile and collaborative tech environment.

## Experience

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### Third Space Global – Remote

Feb 2024 – Sep 2024

#### Online Math Tutor

- Delivered personalized, one-to-one tutoring in Mathematics, using a customized approach to meet students' needs and enhance their academic performance by utilizing advanced online teaching tools to engage and motivate learners.

## Education

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### Information Institute of Technology – Colombo

May 2023 – Nov 2027

#### Bachelor of Science – Computer Science

- Software Development Group Project - 83
- Database Systems - 84
- Computer Systems Fundamentals - 77
- Data Structure & Algorithm - 75
- Overall average - Above 70

### Lyceum International School – Nugegoda

Sep 2018 – Aug 2020

#### GCE Advanced Level – Biological Science

### Mercy Education Campus – Madurankulliya

Jan 2014 – Dec 2017

#### GCE Ordinary Level

## Projects

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### VisuaLit – AI Powered E-Book Reader

- **Tech Stack:** Flutter, Python, Fast-API, AWS S3, Docker, GCP, Chat TTS, Stable Diffusion, Hugging Face, GitHub CI/CD, Flux Modal and Spacy.
- Designed an AI-driven eBook reader with contextual visualizations and natural-sounding text-to-speech (TTS) for an enhanced reading experience by implementing spaCy and regex for extracting descriptive elements and integrated stable diffusion for visual content generation.
- **My Contributions:** Database design and architecture, building the FastAPI back end, audiobook generation front end, containerization with Docker, setting up CI/CD with GitHub Actions, automating tests, deploying to GCP with infrastructure as code, and integrating observability into the pipeline.

### Portfolio Website Infrastructure Deployment

- **Tech Stack:** Next.js, GitHub Actions, Terraform, AWS EC2, Monitoring (CloudWatch) and Bash.

- Designed and deployed a personal portfolio application using Next.js on Vercel, later migrated to AWS with infrastructure provisioned via Terraform.
- Established an automated CI/CD pipeline with GitHub Actions for continuous deployment and integrated AWS CloudWatch for essential monitoring and logging.

### Book Management Microservice

- **Tech Stack:** Node.js, Docker, Kubernetes (Minikube/EKS), Helm, ArgoCD, Prometheus, Grafana, Service Now, WSO2 API Manager and WSO2 Identity Server.
- Containerized a Node.js microservice and deployed it to Kubernetes using Helm charts, managing the deployment declaratively through a GitOps workflow with ArgoCD.
- Integrated WSO2 API Manager for secure API gateway and WSO2 Identity Server for authentication.
- Set up Prometheus and Grafana for monitoring and alerting, validated self-healing through pod failure simulations, and logged incidents in ServiceNow.

## Skills

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### Technical Skills

- **Languages:** Python, Java.
- **Web Development:** HTML, CSS, JavaScript, React, Flutter.
- **Cloud Platforms:** AWS, Google Cloud Platform (GCP), Firebase.
- **DevOps & Infrastructure:** Docker, Kubernetes, Helm, Terraform, Pulumi, Ansible, GitHub Actions, Infrastructure as Code, Test Automation.
- **AI/ML:** SciKit-Learn, Stable Diffusion, spaCy, Hugging face.
- **Other Tools:** Git, Postman, Prometheus, Grafana, Bash.

### Soft Skills

- **Leadership**
- **Problem Solving**
- **Communication**
- **Creative Thinking**
- **Adaptability**

## Awards & Achievements

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- **NBQSA 2025 Finalist (VisuaLit).**
- **Codesprint X - 1st Runners Up (VisuaLit).**
- **Cutting Edge 2025 - 2nd Runners Up (VisuaLit).**

## Extra-Curricular Activities

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- **Leadership:** Deputy Head Boy of MEC (2017), Treasurer MECOSA (2025), Debate team captain, House captain, and various other leadership position
- **Membership:** Toastmasters, IEEE, Rotaract
- **Volunteering:** IIT Iftar, Cutting Edge, Stage Craft, TM Events, IEEE Events, Rotaract Events, MECOSA Events
- **Sports:** Football, Cricket, Basketball & Badminton
- **Hobbies:** Hiking & Traveling

## References

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