Aadith Thillai Arasu

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Portfolio |

EDUCATION

Kalasalingam University	Aug. 2023 – May 2025
Masters of Computer Science and Engineering	*Krishnankoil, Tamil Nadu*
Mepco Schlenk Engineering College	Aug. 2019 – May 2023
Bachelor of Computer Science and Engineering	*Virudhunagar, Tamil Nadu*

EXPERIENCE

Technical Specialist & Developer Intern — Nov 2024 – July 2025
Alcatel-Lucent Enterprise — *Bangalore, India*

- Collaborated with the enterprise wireless networking team on customer network configuration, troubleshooting, and performance monitoring.
- Designed and developed a web-based network packet analysis and visualization tool using Next.js, integrating tshark for packet capture and protocol analysis.
- Built interactive dashboards with packet tables, protocol distribution charts, and traffic timelines, enhancing visibility for network administrators.
- Optimized performance to achieve 15% faster load times and 40% lower memory consumption than equivalent desktop tools.
- Evaluated performance and usability using real-world PCAP datasets to ensure accuracy and scalability in enterprise environments.

Smart India Hackathon Finalist: Assistive Learning for Disabled Users — July 2022
Mepco Schlenk Engineering College — *Virudhunagar, Tamil Nadu*

- Developed an accessible web application using speech recognition and eye-tracking technology to assist users with physical disabilities. Created an inclusive quiz application for users with cognitive disabilities to enhance their educational experience.
- Utilized React JS for front-end development, ensuring a responsive interface compliant with WCAG guidelines and integrated external APIs for eye movement navigation.
- Employed MongoDB for efficient data storage and retrieval of user profiles and application content.

PROJECTS

Cloud-Native Recipe Application with IaC | *AWS, Terraform, React, Express.js, EC2, VPC, S3* — Sep 2025

- Deployed full-stack recipe application on AWS using Infrastructure as Code (Terraform) to automate provisioning of EC2 instances, VPC networking, security groups, and S3 storage buckets.
- Developed React frontend with responsive UI to fetch and display recipes from external API, integrated with Express.js RESTful backend for API request handling and data processing.
- Implemented CI/CD pipeline and automated deployment workflows, reducing infrastructure setup time by 40% and ensuring 99.9% uptime with auto-scaling capabilities.
- Configured CloudWatch monitoring and logging for real-time performance tracking and automated alerting for production environment.

Distributed Deep Learning Services | *Tensorflow, Keras, PHP, Raspberry Pi, JavaScript* — July 2024

- Developed distributed deep learning framework in fog computing environment for image classification and object detection, serving 100+ research students with 30% improved outcomes and 25% enhanced processing speed.
- Designed responsive UI using HTML, CSS, and JavaScript with PHP and Apache back-end, reducing latency by 15%.

CERTIFICATIONS

AWS Certified Cloud Practitioner | Amazon Web Services

AWS Certified Developer - Associate | Amazon Web Services

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL (Postgres), NoSQL (MongoDB), HTML/CSS, Golang
Frameworks & Libraries: React.js, Node.js, Next.js, Express.js, Tailwind CSS, Tensorflow, Keras, OpenCV
Cloud & DevOps: AWS (EC2, S3, Lambda, RDS), Terraform, Docker, Kubernetes, Ansible, Linux, CI/CD
Developer Tools: Git, Github, Wireshark