Abijith Arun

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Career Objective

Final-year B.Tech CSE student (KTU, April 2026) with hands-on experience in AI-based security systems, AWS cloud infrastructure, and machine learning. Certified in CompTIA Security+ (SY0-701), AWS Certified Cloud Practitioner, and Google Cybersecurity Professional. Seeking full-time roles in Cybersecurity, Cloud Infrastructure, or AI/ML Engineering to apply practical skills in a production environment.

Education

Sahrdaya College of Engineering and Technology, Thrissur, Kerala	**2026**
B.Tech in Computer Science & Eng. (Affiliated to APJ A.K.T. University)	CGPA: 7.48 (upto Sem 7)
Deepthi HSS, Thalore, Kerala	**2022**
Higher Secondary (State Board)	96.5%
St. Paul's Public School, Thrissur, Kerala	**2020**
Secondary (CBSE)	90%

Technical Skills

- **Cloud Platforms:** AWS (EC2, S3, IAM, Lambda, DynamoDB, API Gateway, CloudFront, Route 53)
- **AI / ML:** TensorFlow/Keras, Scikit-learn, Pandas, NumPy, LangChain, ChromaDB, SMOTE/ADASYN
- **Languages & Tools:** Python, C, Git, Streamlit, Jupyter/Colab, Groq API
- **Operating Systems & Networking:** Linux (Ubuntu/Fedora), TCP/IP, DNS, DHCP, Firewall Rules
- **Cybersecurity:** Nessus, IDS/IPS Concepts, Threat Analysis, Vulnerability Assessment

Professional Experience

Cybersecurity Trainee <div align="right">**Feb 2024 – Apr 2024**</div>

Structured Cybersecurity Training Program <div align="right">*Remote*</div>

- Completed structured training on Network Security and Ethical Hacking methodologies.
- Executed vulnerability scanning simulations using industry-standard tools like Nessus.
- Documented incident response workflows and defense strategies as part of capstone coursework.

Projects

SecureNet AI - Hybrid CNN-LSTM NIDS *[GitHub]* <div align="right">*Python, TensorFlow, Streamlit, Groq API*</div>

- Built a hybrid **CNN-LSTM deep learning NIDS** on the CIC-IoT-2023 dataset (43M records), achieving **78.49% accuracy** across 34 attack classes including DDoS, Mirai, and spoofing.
- Applied **SMOTE/ADASYN** oversampling to resolve extreme class imbalance (92% benign traffic), achieving high recall on minority attack classes.
- Deployed a **Streamlit dashboard** processing 1000+ packets/sec in batch mode, with **Groq Llama 3.3 70B** integration for automated forensic report generation.

Cloud Resume Challenge *[Live]* <div align="right">*AWS, Route 53, CloudFront, Lambda, DynamoDB*</div>

- Architected a highly available, serverless web application using **S3** and **CloudFront CDN**, enforcing strict **HTTPS/TLS 1.2** encryption via **AWS Certificate Manager (ACM)**.
- Configured global DNS routing and domain delegation using **Route 53**, utilizing Alias records to map the custom domain (`abijitharun.dev`) to dynamic edge locations.
- Engineered a serverless visitor-tracking microservice using **Python Lambda, DynamoDB**, and **API Gateway**, securing component communication with least-privilege **IAM** policies.

Certifications & Achievements

- **Certifications:** AWS Certified Cloud Practitioner (Feb 2026) | CompTIA Security+ (SY0-701) | Oracle Cloud Infrastructure GenAI Certified Professional | Google Cybersecurity Professional | Google IT Support Professional | GitHub Foundations | NPTEL: Ethical Hacking
- **Achievements:** Google Cloud Arcade Facilitator Program (2023 – 2024) | Google Solution Challenge 2024 (Regional Qualifier)