

John Bradley Tarver

bradtarber477@gmail.com · linkedin.com/in/john-tarver-863277358 · github.com/Bradly187 · Marlin, TX

EDUCATION

Texas A&M University-RELLIS · Marlin, TX *Expected December 2026*

Bachelor of Science, Computer Science

Relevant Coursework: AI-Enhanced Security · Computer Networking (CCNA-level) · Physics II
Electromagnetism

CERTIFICATIONS

AWS Certified Cloud Practitioner *Completed*

AWS Certified AI Practitioner *Completed*

IBM Qiskit Advocate *Active*

AWS Cloud Institute Certificate *Expected June 2026*

AWS Certified Developer – Associate *Exam Scheduled July 2026*

PROJECTS

Clinic Scheduler | C# · .NET MAUI · Blazor

- Built a full-stack clinic scheduling application with role-based access control (RBAC) for patient and staff users
- Implemented patient and appointment management modules with domain-driven data modeling
- Explored HL7 FHIR integration concepts for healthcare data interoperability
- Deployed as a live web application on AWS EC2 with Nginx reverse proxy

Patient Onboarding System | Django · AWS Lambda · DynamoDB · Amazon Rekognition

- Designed a serverless identity verification pipeline that scans driver's licenses using Amazon Rekognition
- Architected event-driven backend with AWS Lambda functions and DynamoDB for scalable, cost-efficient operation
- Built Django front end for patient intake and integrated with AWS services via boto3

Network Intrusion Detection System | Python · PyTorch · NSL-KDD

- Benchmarked classical ML (PCA + SVM) against deep learning (MLP) for network intrusion detection on the NSL-KDD dataset
- Addressed severe class imbalance and train/test distribution shift through preprocessing and evaluation design
- Implemented backpropagation and MLP training loop from scratch with matplotlib visualizations

EXPERIENCE

Operations Staff · Treece Services *Aug 2021 – Present · Part-time*

- Coordinated staff schedules and managed day-to-day operational logistics across service events
- Oversaw scheduling and logistics planning to ensure timely, organized delivery of services

TECHNICAL SKILLS

Languages: Python, C#, SQL, JavaScript

Frameworks & Libraries: Django, .NET MAUI, Blazor, PyTorch, Qiskit

Cloud & AWS: Lambda, DynamoDB, Rekognition, EC2, S3, IAM, boto3

Networking: Cisco IOS, VLANs, OSPF, STP, EtherChannel — academic lab experience

ML / AI: SVM, MLP, PCA, Backpropagation, NSL-KDD, scikit-learn

Tools: Linux, Git, Docker, WSL2, MobaXterm, Nginx