

Akshay Antony

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Professional Summary

Software Engineer with 2+ years of experience building high-performance healthcare and enterprise applications using **C#, .NET**, and **WPF**. Skilled in developing scalable web and full-stack solutions with **ASP.NET Core**, **React**, and **Azure**. Strong foundation in AI/ML, cloud integration, and data-driven development through an M.Sc. in Computational Science. Passionate about delivering reliable and user-focused software using Microsoft technologies and Agile methodologies.

Work Experience

Quest Global

Software Engineer

Trivandrum, Kerala

Oct 2021 – Aug 2023

- Developed and optimized imaging modules for **Philips CT scanners** using **C#, .NET Framework**, and **WPF**, achieving a 15% reduction in scan exposure.
- Implemented **multithreaded processing** for real-time visualization and improved UI responsiveness.
- Collaborated with cross-functional teams to ensure compliance with quality and regulatory standards.
- Contributed to **CI/CD pipelines** and Agile sprints using **Azure DevOps**.
- Co-developed an internal **Interview Scheduling System** using **.NET** and **WPF**, improving scheduling efficiency by 60%.

Outlier AI

AI Data Annotator / Model Evaluator

Remote

Sep 2024 – Feb 2025

- Evaluated AI-generated code and responses for accuracy, reasoning, and fluency.
- Curated and enhanced datasets to improve model performance in computational tasks.

Microsoft – IIT Calicut

Machine Learning Intern

Remote / Trivandrum, India

Oct 2019 – Nov 2019

- Applied machine learning algorithms to classification and optimization problems using Python and scikit-learn.
- Improved model training efficiency by 20% through optimized preprocessing pipelines.

Education

Laurentian University

M.Sc. in Computational Science

Sudbury, ON, Canada

Sep 2023 – May 2025

Focus: AI, Machine Learning, and High-Performance Computing.

Mar Baselios College of Engineering & Technology

B.Tech. in Computer Science & Engineering

Trivandrum, India

Aug 2017 – Mar 2021

Technical Skills

Languages: C#, Python, SQL, JavaScript, HTML, CSS

Frameworks & Libraries: .NET Core, ASP.NET Core, WPF, React, Entity Framework, Web API, PyTorch, TensorFlow

Cloud & Tools: Azure Functions, SignalR, Cosmos DB, Visual Studio, Git, Azure DevOps, NUnit

Concepts: Object-Oriented Design, Multithreading, REST APIs, Design Patterns, Agile/Scrum, Problem-Solving

Key Projects

CloudHealthCare: Full-stack patient telemetry dashboard using **ASP.NET Core**, **React**, **Azure Functions**, and **SignalR** for real-time data streaming and visualization.

FolderFit: Desktop utility in **.NET** and **WPF** that categorizes and organizes files by type or date, featuring

drag-and-drop and responsive UI.

AIImageClassifier: End-to-end image classification demo using **PyTorch**, **FastAPI**, and a **.NET WPF client**, deployed with a RESTful API for image inference.

LaneDetection: Real-time lane detection using Canny edge detection and Hough Transform for varied lighting conditions.

TruSight: Blind navigation system integrating **YOLOv3** and **PyTesseract** for obstacle detection and real-time voice feedback.

Certifications & Awards

Certifications:

- Microsoft Certified: Front-End Web Development with .NET, Back-End Web Development with .NET (Dec 2024)
- Backend Developer Professional Certificate – Microsoft (Oct 2025 – Present)
- Artificial Intelligence for Cybersecurity – uCertify (Jul 2024)
- Introduction to Machine Learning – Kaggle (Mar 2025)
- Microsoft Technology Associate: Python – Microsoft (Nov 2019)

Awards:

- 3rd Place – Coding Competition, Mar Baselios College of Engineering & Technology (2018)
- 2nd Place – Coding Competition, Mar Baselios College of Engineering & Technology (2017)