

ADVAITH HARIKRISHNAN

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EDUCATION

Univeristy Of Hertfordshire
BSc Computer Science

Hatfield, United Kingdom
September 2019 - September 2022

Christ Nagar International School
A Levels - IT, Chemistry

Trivandrum, Kerala
2016 - 2018

WORK EXPERIENCE

RM India
Software Engineer

Trivandrum, Technopark Phase 3
May 2023 - June 2025

- **Malpractice Detection Module** — Collaborated with a small team and later independently to design and maintain a standalone system that identifies malpractice from candidates' digital exam responses using third-party services; developed an ASP.NET-based external API with a Service Bus-integrated background processor for heavy workloads, implemented asynchronous result delivery via webhooks, and configured scheduled Cron Jobs to re-queue failed requests during service outages..
- **Integrated Connector Engine** — Contributed to an integration project aimed at automating and streamlining data flow between RM's flagship products, Assessment Master (E-Exam) and Assessor 3 (E-Marking); designed an ASP.NET API for efficient interaction with Assessment Master's PostgreSQL database and developed a WPF-based performance testing tool. The project successfully passed UAT and was deployed to production in October 2024, replcaing the exisitng XML based legacy integration.
- **RM Assessor 3** — Contributed to maintenance and feature development for RM's largest and longest-running E-Marking application, Assessor 3; resolved both legacy and newly reported defects, and built internal tooling to streamline configuration management for the technical operations team.

SKILLS

Programming Languages: C#, Python, Typescript, C/C++
Backend Frameworks: ASP.NET, .NET Core, Flask
Frontend Frameworks: Angular, React, WPF (Desktop Development)
Database: SQL Server, PostgreSQL, SQLite

PROJECTS

SQL Data Access Helper .NET <https://github.com/adharikrishnan/SQLDataAccessHelper>
Helper Library for PostgreSQL and SQL Server — Developed a utility library based on ADO.NET to support database-first architectures, enabling streamlined interaction with both PostgreSQL and SQL Server through consistent, low-level data access patterns.

Authentication API ASP.NET Web API, EF Core, SQLite
<https://github.com/adharikrishnan/AuthenticationAPI>
An Authentication and Authorization API implemented as an Identity Server service, supporting role-based user creation and secure JWT token issuance with refresh token capabilities; it includes endpoints for token renewal and revocation, along with a configurable background service for purging revoked tokens. The project is fully Docker-compatible, featuring a Dockerfile and Docker Compose setup for seamless containerization.

Palco - Video Downloader and Audio Converter Python <https://github.com/adharikrishnan/palco>
Simple Command Line Video Downloader and Audio converter using yt-dlp.

Object Detection Implementation using the Mobilenet SSD model. Python, OpenCV
<https://github.com/adharikrishnan/object-detection-with-MoblieNet-SSD>
Object Oriented Implementation of the Mobilenet SSD model for Real-time object detection using a camera (can be used with webcams)

CERTIFICATES

IBM Full Stack Software Developer
12 Course Specialization Certificate provided by IBM Skills Network

Coursera
December 11th, 2022

Machine Learning Specialization
3 Course Machine Learning Specialization Certificate provided by Stanford University

Coursera
January 13 2023