Himanika Muthukumar

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Summary

Versatile developer with experience in building **scalable applications using C#, ASP.NET Core, and Angular**. Skilled in **RESTful API integration, role-based access control**, and **performance optimization**. Strong in data handling with **SQL Server**, with a focus on maintainable user-centered systems.

Education

New York University Sep 2025 – May 2027

MS in Computer Science | ***Course:*** *Cloud Computing & Big Data (AWS), Software Engineering, Database Systems*

SRM Easwari Engineering College Sep 2018 – Apr 2022

BE in Computer Science and Engineering | ***GPA Equivalent:*** *3.3/4.0*

Technologies

Languages: C#, Python, C

Frontend: React, Angular, JavaScript, TypeScript, HTML, CSS, jQuery

Backend: ASP.NET Core, Node.js, RESTful APIs, Microsoft IIS, NPM

Database: SQL Server, MySQL

Tools and Platforms: AWS, Git, Postman, Jira, Figma, Confluence, Visual Studio, VS Code

Experience

Application Developer, *ADP – Tamil Nadu, India* Jul 2022 – Sep 2024

- Redesigned ADP's Celergo HRM & Payroll Excel import system using **.NET Core, RESTful APIs**, and **SQL Server**; cut onboarding time by **50%** and decreased import errors by **80%**.
- Created modular **React components** (e.g., message bar, notifications panel) with access controls and backend validation, reducing code redundancy by **40%**.
- Engineered a real-time notification system (email & in-app) leveraging workflow triggers and APIs to automate payroll status alerts across users.
- Implemented fine-grained **access control** with automated metadata tagging, boosting security and reducing manual role setup time by **20%**.
- Championed accessibility as UI/UX representative in a global task force; ensured **WCAG** compliance through structured testing and interface refinements.

Application Developer Intern, *ADP – Tamil Nadu, India* Mar 2022 – Jun 2022

- Built payroll and employee input forms using **C# and ASP.NET**, lowering data-entry issues and reducing support tickets by **30%**.
- Integrated **RESTful APIs** with **SQL Server** to enhance backend queries; improved page load speed by **40%**.
- Refactored internal UI components to modernize behavior and improve interface consistency, clarity, and accessibility.

Projects

Skin Cancer Classifier

- Built a CNN-based skin lesion classifier using the **ISIC** and **HAM10000 datasets**; achieved **93%** accuracy via transfer learning and fine-tuning, outperforming InceptionV3 by **20%** in **F1-score**.
- Processed and cleaned over **10,000 dermoscopic images**; optimized data pipelines to reduce preprocessing time by **30%**, improving model training efficiency.

Volunteer Experience

Support + Feed: Community Outreach & Engagement Sep 2025

Assisted in setting up and distributing rescued produce to seniors at the Greenwich House Adult Center.