

# Supriya Mutharasan

FEDERAL GOV. IT-01 · TECHNICAL SUPPORT ANALYST AND POWERAPPS DEVELOPER

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## Summary

Accessibility-focused IT professional with a Bachelor's degree in Computer Science and hands-on experience delivering WCAG-compliant solutions in government and education sectors.

Proven success in early-stage accessibility consulting, stakeholder training, and documentation. Adept at translating AODA/WCAG requirements into practical guidelines for large, distributed teams.

A two-time hackathon winner recognized for designing innovative, automation-driven solutions. Dedicated to problem-solving, cloud automation, and streamlining processes to drive efficiency and impact.

## Skills

<b>DevOps &amp; Cloud Services</b>	AWS & Azure cloud services, Docker, GitHub Actions, Terraform
<b>Automation &amp; CI/CD</b>	Power Automate, Shell Scripting, GoLang, PowerShell, Bash
<b>Web Development</b>	JavaScript, TypeScript, React, Angular, Next.js, REST APIs
<b>Mobile Development</b>	React Native, Android Studio
<b>Programming Languages</b>	C#, C++, Java, Python, Go, SQL, NoSQL
<b>Database Management</b>	PostgreSQL, MySQL, MongoDB, Firebase, DynamoDB
<b>Business Intelligence &amp; Data Analytics</b>	Power BI, Excel, Seaborn, Pandas, Mathlab
<b>Low-Code Platforms</b>	PowerApps, SharePoint, DotNetNuke
<b>Tools &amp; IDEs</b>	Visual Studio, IntelliJ IDEA, Git, Docker, Netlify, Vercel
<b>Languages</b>	English (Fluent), Tamil, Korean

## Work Experience

### Shared Services Canada (SSC)

Ottawa, Canada (Remote)

POWERAPPS AND POWER BI DEVELOPER AND TECHNICAL SUPPORT ANALYST

Jan. 2023 - Sept. 2024

- Resolved tab order for screen readers and added environment names to boost assistive technology compatibility, raising inclusivity
- Integrated WCAG principles early when creating a bilingual Power BI glossary with 200+ terms, streamlining onboarding and team alignment
- Lowered unresolved issues by 25% by building a centralized PowerApps tracking system with advanced search and automated reminders
- Increased system adoption by 30% through 10 user guides and infographics, highlighting key benefits to diverse stakeholders
- Standardized over 250 monthly business request emails via a Power Automate flow with hash tables, improving assignment accuracy
- Analyzed historical BR data with VLOOKUP to reveal CRQ date and delay trends, delivering insights for process optimization
- Drafted 10 UML class diagrams for business architecture, accelerating collaboration and clarifying system understanding
- Produced 20 bilingual software training videos in under two months, onboarding executives and Linux or Unix teams while reducing miscommunication

### Toronto District School Board (TDSB)

Toronto, Ontario

DOTNETNUKE C# WEB DEVELOPER

May 2021 - Dec. 2022

- Scanned 100 websites, 50 public pages, and 20 modules with SiteImprove, JAWS, and NVDA, achieving AODA and WCAG standards
- Delivered AODA presentations to principals and content providers on color contrast, alt text, and headings, reducing noncompliant submissions
- Achieved consistent WCAG compliance by adding a custom accessibility checklist in DotNetNuke modules for each release
- Streamlined navigation by adding gender and event-type filters to a sports event web application, elevating user experience
- Remediated 100 web pages, 50 school sites, and 20 modules under tight deadlines, maintaining accessibility across board-operated sites
- Deployed and tested a staff login page on a critical deadline, providing essential functionality for the entire school board
- Consulted with 20 principals and marketing leads to refine site layouts, consolidating design and content

## Projects

### Spam Detector (Personal Project) - Java Developer

- Constructed a web application using a probabilistic model to predict spam likelihood of emails, trained on a comprehensive email dataset.
- Achieved over 95% accuracy by filtering out stop words and assigning higher weights to spam keywords, enhancing the model's precision.

### **MyFileBackPack (Home Lab) - AWS Developer**

- Developed a scalable microservice API for handling text and image fragments, integrating authentication and authorization mechanisms using AWS Cognito and IAM, ensuring compliance with security standards.
- Implemented high-availability data storage solutions with AWS DynamoDB and S3, optimizing performance by designing efficient data models and access patterns, which reduced latency by 30%.
- Deployed and managed the application using AWS ECS and Elastic Beanstalk, achieving efficient container orchestration and seamless integration with AWS services via the AWS SDK.

### **PantryPal (Hackathon Project) - Jr. solutions architect**

- Achieved scalable and efficient deployment of the PantryPal application by leveraging Azure cloud services—including Azure Static Web Apps—and implementing CI/CD pipelines with GitHub workflows across DEV, TEST, and PROD environments, resulting in seamless integration, collaboration and faster deployment cycles.
- Enhanced client understanding and confidence by developing a comprehensive cloud architecture document, effectively communicating the application's technical design and deployment strategy.
- Implemented a NoSQL database using MongoDB with optimized collections, enabling efficient management of pantry items and recipes for users and chefs.

## **Certificates & Awards**

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- 2025    **AWS Certified Solutions Architect Associate**, Amazon Web Services (AWS)
- 2024    **PantryPal Web App Hosted on Azure - Hackathon Winner**, OntarioTech University - Hackhive
- 2022    **AWS Certified Cloud Practitioner - Foundation**, Amazon Web Services (AWS)
- 2018    **Inclusify Chrome Web Extension - Hackathon Finalist**, University of Waterloo - Equithon

## **Education**

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### **OTU (OntarioTech University)**

*Ontario, Canada*

B.S. IN COMPUTER SCIENCE

- Received President Scholarship which is given to promising students in Faculty of Science.

### **Seneca (Seneca Polytechnic College)**

*Ontario, Canada*

ADVANCED DIPLOMA IN COMPUTER PROGRAMMING AND ANALYSIS

- Deployed a full stack web application targeted towards healthcare professionals spreading public health awareness as capstone project with a team of 4 for 8 months.

### **STRCHS (St. Robert Catholic High School)**

*Ontario, Canada*

ONTARIO SECONDARY SCHOOL DIPLOMA

- Peer tutored 15+ students for 2 years in Science, Math and Tamil.