

# Supriya Mutharasan

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

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## Summary

Full-stack cloud developer specializing in scalable web applications, CI/CD pipelines, and AI-driven automation to enhance business performance. Experienced in leveraging cloud services for file management, e-commerce, and workflow automation. Skilled in code-driven storytelling, effectively translating technical solutions into business impact.

At Shared Services Canada, optimized the centralized mailing inbox with Power Automate scripts, reducing human error. Improved onboarding and service delivery with a 200+ term Power BI Glossary, contributing to the business architecture document and key training materials.

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>Automation &amp; CI/CD</b>	Power Automate, Shell Scripting, GoLang, PowerShell, Bash
<b>Programming Languages</b>	C#, C++, Java, Python, Go, SQL, NoSQL
<b>Database Management</b>	PostgreSQL, SQL, 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

## Work Experience

### Amazon Web Services (AWS)

Toronto, ON

SOLUTIONS ARCHITECT INTERN

April 2025 – Present

- Designed and supported scalable, secure, and cost-optimized AWS architectures for customer workloads, aligning cloud solutions with technical and business objectives.
- Built interactive dashboards using Amazon QuickSight, integrating datasets from Amazon S3 and AWS Athena to enable near real-time analytics for customers.
- Participated in technical deep dives and architecture reviews with customers, identifying opportunities to improve performance and reliability using services such as EC2, RDS, Lambda, and CloudFront.
- Translated stakeholder feedback into clear technical requirements for product teams, contributing to customer-centric service improvements.
- Conducted hands-on walkthroughs and labs to upskill customer engineering teams on IAM, serverless architecture, VPC networking, and analytics services.
- Produced reusable reference architectures, knowledge articles, and automation scripts to accelerate cloud adoption and onboarding for customers.
- Shadowed customer discovery sessions and contributed to cloud solutioning by asking strategic questions that uncovered underlying technical challenges.

### Shared Services Canada (SSC)

Ottawa, Canada (Remote)

POWERAPPS AND POWER BI DEVELOPER AND TECHNICAL SUPPORT ANALYST

Jan. 2023 – Sept. 2024

- Enhanced transparency and accountability, reducing unresolved issues by 25%, by implementing a centralized tracking system built with PowerApps, integrating advanced search using business logic rules, and automating reminders for critical deadlines via Power Automate.
- Reduced manual effort and communication delays by enabling intake and project coordinator teams to electronically track BR progress through an automated checklist and exception evaluation, accelerating closure processes and improving decision-making.
- Increased adoption of a centralized tracking system by 30% through the creation of over 10 comprehensive user guides, infographics, and organizational growth visuals, clarifying system benefits and easing integration for stakeholders.
- Resolved critical WCAG compliance issues, such as fixing tab order for screen readers and adding a column for environment names to enhance usability for assistive technology users, improving inclusivity across the platform.
- Developed a Power Automate flow to standardize and process over 250 monthly business request emails, categorizing them by attributes like client and environment type using hash tables, improving assignment accuracy and reducing intake team workload.
- Leveraged Excel features like VLOOKUP to analyze historical BR data, identifying trends in milestones such as CRQ dates and delays, providing actionable insights to optimize processes and improve planning.
- Designed and integrated over 10 UML class diagrams into the business architecture document, simplifying system understanding for new hires and stakeholders and facilitating collaboration during feature development.
- Developed a bilingual, searchable Power BI glossary containing over 200 terms, providing a single source of truth that streamlined onboarding, improved team alignment, and reduced reliance on live instruction.
- Produced 20 bilingual software training videos within two months, onboarding dozens of executives and Linux/Unix administration teams, increasing efficiency and reducing miscommunication through accessible, consistent resources.

- Enhanced the public-facing website's AODA compliance by using website crawlers like SiteImprove and custom scripts to scan HTML attributes, improving accessibility across the board's online presence.
- Improved user navigation and experience by enhancing the sports event web application, introducing filters to sort events by gender and type (e.g., boys' basketball, girls' swimming).
- Remediated and quality-tested over 100 web pages, 50 school websites, and 20 web modules under time pressure, ensuring AODA compliance by adhering to WCAG standards.
- Consulted with over 20 school principals and marketing officers to design and update public site webpages and school sites, improving website design and content.
- Deployed and tested the staff login page used across the entire school board under a tight deadline, delivering critical functionality.

## Projects

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### 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.