Supriya **Mutharasan**

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

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Summary

- Passionate full-stack cloud developer specializing in deploying scalable web applications, implementing CI/CD and AI-driven automated pipelines to solve complex problems and drive business performance.
- Focused on code-driven storytelling to convey narratives about corporate app transformations and societal well-being. Leveraged cloud services in file management, email inbox management, e-commerce, and social media applications.
- Enhanced the centralized mailing inbox at Shared Services Canada by developing Power Automate scripts, which significantly reduced human error.
- Streamlined onboarding and service delivery processes by deploying a comprehensive 200+ term Glossary report in Power BI, contributing to the business architecture document, and producing crucial training materials.
- Two-time hackathon winner, demonstrating innovation and excellence in software development.

Skills

DevOps & Cloud Services	AWS & Azure cloud services, Docker, GitHub Actions, Terraform
Automation & CI/CD	Power Automate, Shell Scripting, Go (for GitHub Workflows & CI/CD pipelines), PowerShell, Bash
Web Development	JavaScript, TypeScript, React, Angular, Node.js, Express.js, Next.js, HTML5, CSS3, REST APIs
Mobile Development	React Native, Android Studio
Programming Languages	C#, C++, Java, Python, Go, SQL, NoSQL
Database Management	PostgreSQL, MySQL, MongoDB, Firebase, DynamoDB
Business Intelligence & Data Analytics	Power BI, Excel, Seaborn, Pandas, Mathlab
Low-Code Platforms	PowerApps, SharePoint, DotNetNuke
Tools & IDEs	Visual Studio Code, Visual Studio, IntelliJ IDEA, Git, Docker, Netlify, Vercel, Heroku
Languages	English (Fluent), Tamil, Korean

Work Experience

Shared Services Canada (SSC)
Ottawa, Canada (Remote)

POWERAPPS AND POWERBI DEVELOPER AND TECHNICAL SUPPORT ANALYST · *Jan. 2023 - Present*

- Developed over 10 UML class diagrams for the Business Request Tracker as part of the Division Integration Initiative, enhancing collaboration across multiple teams and client executives by supporting the development of a centralized service delivery system.
- Produced 20 bilingual software training videos in two months, onboarding dozens of client executives and Linux/Unix administration teams to the new centralized system, resulting in improved communication and service delivery efficiency.
- Implemented a Power Automate script to manage over 250 new business requests monthly by categorizing emails using hash tables based on subject lines, streamlining the centralized intake process and significantly reducing human error.
- Developed and maintained a Glossary PowerBI report displaying over 200 definitions, examples, and business codes, enhancing data accessibility in the knowledge management solution.
- Quality tested and resolved bugs on the PowerApps Business Request Tracker web application under tight deadlines, ensuring full application accessibility and functionality in adherence to WCAG standards.

Toronto District School Board (TDSB)
Toronto, Ontario

DOTNETNUKE C# WEB DEVELOPER · *May 2021 - Dec. 2022*

- 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

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

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

Education

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.