

Manar Elgamil

SOFTWARE DEVELOPER · CLOUD AND APPLICATION SPECIALIST

Halifax, NS

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Summary

Cloud and Application Specialist with hands-on experience deploying secure, automated solutions on Azure and AWS. Skilled in CI/CD pipelines, infrastructure automation, and containerized deployments using GitHub Actions and Docker. Strong foundation in Linux, scripting (Python), and cloud security practices. Recognized for leadership and resilience; recipient of multiple hackathon awards and a Dalhousie Leadership Impact Award.

Skills

Languages Python, Java, YAML, JavaScript, SQL, HTML/CSS

Cloud/DevOps Tools Azure, AWS (Lambda, API Gateway, EC2, S3, DynamoDB), Docker, GitHub Actions, CI/CD, Terraform (exposure), Git, Linux

Soft Skills Curious, Problem-solver, Effective communicator, Fast-learner, Team player, Flexible

Work Experience

ConnectWise Dashboard – Internal Analytics Tool

Halifax, NS

VMG Strategic Technology - Cloud and Application Specialist

Feb 2025 - Present

- Built and containerized an internal analytics tool with Docker, deploying via GitHub Actions and GitOps workflows through Azure Container Registry.
- Configured Azure Container Apps with managed identity, ensuring secure integration with Key Vault and supporting CI/CD operations.
- Integrated ConnectWise Manage API to deliver real-time insights into invoices, client activity, and project status while enforcing security best practices (no hardcoded secrets, HTTPS, least-privilege roles).
- **Technical Skills:** Docker, GitHub Actions, Azure Container Apps, Azure Key Vault, Azure Container Registry, ConnectWise Manage API, GitOps

PGI Leadership Diagnostics Platform – AWS Serverless Integration

Halifax, NS

VMG Strategic Technology - Cloud and Application Specialist

Feb 2025 - Apr 2025

- Delivered a reporting automation system for Pivotal Growth Inc. under a tight 2-month deadline.
- Designed a serverless AWS architecture using Lambda, DynamoDB, and S3 for secure and scalable automation.
- Integrated Microsoft Graph API for SharePoint data retrieval and SendGrid for automated report distribution.
- Project was featured in PGI's press release announcing their AI-enabled leadership intelligence platform, [click here to access it](#).
- **Technical Skills:** AWS Lambda, AWS API Gateway, Amazon S3 bucket, DynamoDB, SendGrid, Microsoft Graph API, Power Automate
- **Soft Skills:** Financial Knowledge, Insurance Industry Knowledge, Professional Communication with Business Users, Ability to learn quickly

BambooHR-Accelo Integration – HR Automation

Halifax, NS

VMG Strategic Technology - Cloud and Application Specialist

Apr 2025 - Jun 2025

- Engineered a serverless AWS Lambda integration to sync BambooHR time-off requests with Accelo, automating HR workflows and reducing manual effort.
- Designed DynamoDB schemas and modular Lambda functions (ingestion, processing, cancellations, queue cleanup), with automated holiday calendar population using Python's holidays library.
- Implemented Auth0 authentication with role-based access control (RBAC), enforced IAM least-privilege, secured secrets with environment variables, and added CloudWatch monitoring for reliability.
- **Technical Skills:** AWS Lambda, DynamoDB, API Gateway, BambooHR API, Accelo API, Auth0 (RBAC), Python (boto3, requests, holidays), CloudWatch

Oracle Developer Co-op - Mass Allocation Project

Halifax, NS

AXIS Capital

May 20223 - Aug 2023

- Created Mass Allocations for a Quota Share between 2 entities to allocate amounts to several accounts automatically on quarterly basis, in the General Ledger module, which increased the financial team's efficiency by 15%
- Engaged proactively with the Finance team, and understood their business challenges which enabled the development of tailored solutions, and thereby increased problem-solving effectiveness.
- **Technical Skills:** SQL, PL/SQL, SQL Server, Oracle ERP, General Ledger Module, DataLoader, General Ledger testing, Mass Allocation Testing
- **Soft Skills:** Financial Knowledge, Insurance Industry Knowledge, Professional Communication with Business Users, Ability to learn quickly

Dalhousie University

Halifax, NS

Teaching Assistant and Marker

May 2022 - May 2024

- Teaches basic and upper-level computer science courses with a class size averaging 60 students.
- Assisted over 400 students over the course of 2 years in grasping and implementing difficult programming concepts like Object-Oriented Programming and complex Data Structures and Algorithms
- Developed strong communication and mentoring skills, explaining complex concepts clearly to students with varied technical backgrounds.
- **Soft Skills:** Leadership, Time Management, Communication, Logical Thinking.

Education

Dalhousie University

Bachelor of Computer Science

Halifax, NS

Sept 2020 - May 2024

- Dean's List High Honors (**GPA: 4.04/4.3**)

- **Relevant Coursework:** Cloud Computing, Software Engineering, Operating Systems, Advanced Database Systems, Data Structure and Algorithms

Projects

Image Processing Application

Cloud Computing

Jan 2024 - Feb 2024

- Implemented an image processing application using a Serverless stack and a Microservice architecture that utilizes AWS Rekognition, to analyze images instantaneously, and automatically notify users upon completion using Amazon SNS, increasing the teams overall efficiency by 20%
- You can find a simulation of the project here, and the completed report here
- **Technical Skills:** AWS S3 Bucket, AWS Lambda, AWS Step Functions, Amazon API Gateway, Amazon SNS, Amazon Rekognition, python, boto3, JSON, REST APIs.
- **Soft Skills:** Self-Guided Research, Cost-Analysis, Security Consideration

Image-to-Image Model

GenAI Ocean Tech Hackathon

May 2024 - May 2024

- Within a team of 5 brilliant students we created an image-to-image model , which generates images of rare fish species, so that they could then be used as training data for classification and detection models, and awarded first place for our solution
- Normalized the original images of Salmonide and Saithe fish species to remove any noise
- Used a Convolutional Neural Network (CNN) model to extract key features from original images (height, width, etc..)
- Utilized OpenAI's API to generate the new image from a pool of 100 original images
- **Technical Skills:** CNN model, OpenAI API, Amazon Rekognition, Python, Jupyter Notebook
- **Soft Skills:** Teamwork, Presentation skills, Time Management, Report writing.

Secure Application

Cloud Computing

Jan 2024 - Jan 2024

- Designed and deployed a web application on AWS, utilizing EC2 instances and Elastic IP for public-facing services, ensuring high availability to user requests.
- Implemented an AWS Virtual Private Cloud (VPC) to enhance security, using private and public subnets as well as ACLs to segregate and control traffic flow between the EC2 server that is public-facing and the private RDS database, maximizing the principle of least privilege.
- Configured secure communication between EC2 instances and an AWS RDS database within the VPC, enabling securing data transactions and storage without exposure to the public internet.
- **Technical Skills:** Amazon VPC, AWS EC2, Amazon Aurora, subnets, ACLs

Extracurricular

Dalhousie Women in Tech Society

President

Halifax, NS

May 2022 - May 2024

- Led a team of accomplished female-identifying students to organize events/competitions and workshops aimed at supporting female-identifying and non-binary individuals in the tech field, and with the help of the Faculty of computer science we were able to increase the number of female-identifying student by 12% over the course of 2 years
- **Soft Skills:** Teamwork, Leadership, Public Speaking, Professional Communications, Time Management, Report writing.

Awards

2024

Leadership IMPACT Award, Faculty of Computer Science, Displayed exceptional leadership skills and fostered new opportunities for computer science students at Dalhousie University.

Halifax, NS

2024

First Place, Shiftkey's Generative AI Hackathon , Optimized the IWK's booking user-interface, by utilizing generative AI to predict high and low traffic slots based on historical booking data.

Halifax, NS

2024

First Place, Shiftkey's Generative AI Hackathon, Created an image-to-image, generative AI tool, that utilizes a CNN model to extract features from existing images, and then connects to OpenAI's public API to generate similar images. This resulted in creating cheaper test data for the salmonide and saithe fish species

Halifax, NS

2023

Citizenship Award, Faculty of Computer Science, Advocated for diversity and inclusion and contributed voluntarily to creating a welcoming community for female-identifying and non-binary students at Dalhousie University.

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