

Alec Di Vito

✉ divitoo@sheridancollege.ca

☎ (647) 966-0664

🔗 alecdivito.github.io

🐙 github.com/AlecDivito

Skills

Tools/frameworks Familiar Proficient

Rust, Golang, Node.js, Typescript, React, Angular 2+, C#, C++, C, HTML, SCSS, SQL

PHP, Swift, Python, Java, Kotlin, IOS, Android

Git, Azure, AWS, GCP, Kubernetes, Docker, Bash, Github, Linux, MySQL, Postgres, Redis, Socket.io, Redux, RxJS, JIRA, Confluence

Education

2015-2018 2019-2021

Candidate for Honours Bachelor of Computer Science in Mobile Computing

Sheridan College, Oakville, ON
GPA: 3.75

Advanced Diploma in Software Development and Network Engineering

Sheridan College, Oakville, ON
GPA: 3.84

Working Experience

Cloud Developer

RBC, Royal Bank of Canada *full-time Jan-Aug 2020*

Designed, built, and deployed Kubernetes cronjob which shuts docker containers down during non-working hours, saving RBC \$1,000+ a month in Azure cloud costs

Assisted in building RBC's application deployment pipeline, giving bank developers access to Azure cloud using cloud services such as AKS (Azure Kubernetes Services), SQL Server, and Redis Cache

Added functionality to RBC Kubernetes operator to deploy bank developers' applications and workloads. Added support for CronJob, Horizontal Pod Scaling and Pod Disruption Budget workloads

Designed, built and deployed developer focused frontend to allow engineers to quickly access information on bank developers' applications deployed to RBC AKS clusters without needing to request access production and non-production clusters, saving the team time on looking up issues on deployed applications

Built multiple pipelines with Jenkins to deploy Frontend and Backend applications to different environments (eng, nonp, prod)

Supported building of client facing application for RBC developers that would allow them to debug and control their application in RBC's AKS Clusters

Created Flux repository that would automatically deploy custom cronjob's which would be deployed at the same time as the cluster was created

Leveraging knowledge in Azure, Docker, Kubernetes, Golang, Jenkins, React, Typescript, Bash (Scripting), Java and Python

Student Research Assistant Center for Mobile Innovation

Sheridan College *part-time Sep-Dec 2019*

Focused on developing an emotional recognition system with Encore

Created a facial expression classifier using machine learning that strives to accurately determine a person's emotional response to specific stimuli (i.e., selling a product to a customer)

Model worked in real-time and was correct 75% of the time

Leveraged knowledge in Python 3.7, TensorFlow 2

Research Software Developer Center for Mobile Innovation

Sheridan College *full-time Jan-Apr 2019*

Worked independently researching a fall detection algorithm and adding technologies like human poses and machine learning for the stakeholders at PointClickCare

Communicated my progress with stakeholders and presented my final project to PointClickCare and to Sheridan during a CMI showcase

Leveraged knowledge in application & web development using Matlab, C++, Typescript

Digital Innovation IS Developer

Maple Leaf Foods *full-time Apr-Aug 2018*

Develop IOS mobile application with team that was deployed to 175 FSQA managers, supervisors and technicians that allowed them to spend 25% more time on the production floor

Developed backend application to support mobile app, deployed on Azure

Maintained and added features to the time tracking application for plants across Ontario

Reduced query times by optimizing queries, enabling faster searches and results over large datasets

Leveraged knowledge in Swift, IOS, .Net MVC 5, TypeScript, VSTS, and Azure

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Volunteer/Club

Hackademics Vice President

Responsible for online club management, organization of virtual Sheridan hackathon — Hackville 2021, raising money, and managing tech team

RBC Student Leader

Planned games and encouraged community involvement between students at RBC

Hackademics

Helped plan out Sheridan's hackathon as well as help deploy and maintain hackathon site

Secured \$1,000 in funding from RBC

Sheridan Bike Mentor

Helped fix community bikes as well as teach students how to confidently ride on the road

Interests

Road Biking, Camping, flat and white water canoeing, Snowboarding, and Hiking

I love anything to do with the outdoors and getting to know my community

Junior Web Developer

Government of Ontario full-time Sep-Dec 2017

Gained proficiency with Angular 2+ through working on two frontend projects

Created template repo for new Angular 2+ projects that implemented best practices

Effectively learned and used Azure, VSTS, Angular 2+, .Net Core 2, and NoSql to quickly develop user interface, and anticipate and react to UX needs

Collaborated with multiple teams to implement project frontends while also building a prototype application that allowed employees to quickly let their manager know when they wanted to take vacation.

Leveraged knowledge in frontend using Angular 2+ and deployed applications to Azure using VSTS

Hackathons

🔗 Starter Hacks StreamON

Jan 10-12 2020

Built a Google chrome extension that would connect to a Nodejs server using web sockets. Once connected to the server, users can trigger an Alexa voice action to move a stream from their phone to their computer.

🔗 RU Hacks Work Spaces

May15-17 2020

Built in the browser, users could connect to each other over WebRTC and talk to each other over the internet. I worked on developing the game canvas as well as the WebRTC connection between the server the clients.

Major Software Projects

🔗 Wasm Compute (wasmcompute.com) in progress

Run web assembly functions in the cloud. A different take on lambda functions that run web assembly modules instead of docker containers

Developed everything from backend lambda logic to end user cli to compile that securely uploads wasm project files securely to servers. Clients have access to a file system though WASI, a Key-Value store, a Sqlite database and the ability to make web requests.

Used AWS and terraform to deploy infrastructure, used GitHub actions to deploy code.

Uses github.com for authentication. Currently supports Rust programming language only

Leveraged knowledge in Rust, Web Assembly, WASI, Golang, React, Typescript, AWS, Terraform, Postgres, Redis, Nginx, Sqlite, HTML, CSS, Handlebars

Budgetise, Budgeting application for Franchise Owners (Capstone Project)

Collaborated with a team of four to produce a solution to a franchise owner's problem

Designed, managed and developed a budgeting application for McDonald franchise owners with features like live updating and change history using Server Side Events (SSE)

Leveraged knowledge in Angular 2+, Typescript + Node.js, Express, Postgres, Digital Ocean, Nginx, Auth.io, Server Side Events

Minor Software Projects [view them on my portfolio website](#)

🔗 Personal Website

🐙 Developed in Gatsby, using markdown to generate content using BEM styling

🔗 Mine Sweeper Clone

🐙 Clone of the popular minesweeper game, inspired by prox.x.io. Added features to save and create new games.

🔗 Bitmap Image Editor

🐙 A library for reading, writing, editing and creating bitmap images

🔗 Tetris Clone

Developed Tetris clone in RUST compiled down to web assembly and ran on the web. All UI is developed in Typescript without any frameworks