## (EX1) Do you have recent\* and significant\*\* experience providing technical services in at least one of the following areas? :

• IT Infrastructure/Operations

• Application Development

• IT Desktop Support

• Help Desk Support

• Database Development

• Database Administration

• System Administration

• Infrastructure Administration

• IT Security

• IM/IT Business Analysis

• IM/IT Project Management

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

While working at Correctional Service Canada as a CS3 from June 2018 – Present I developed the eSOR Piolet that was released for a limited time in 2019 that has led to the eSOR 2020 project that is currently under way.

• Database Development

• Database Administration

I analyzed the client’s business requirements to develop the Database Schema that was implemented in Dynamics. I have been responsible for administering Dynamics for this application.

• Application Development

I designed the application architecture and implemented it using .NET and Angular. This led me to developing a RESTful API to maintain the applications security to allow users to communicate to the Dynamics using a single service account. This allows us to keep the costs of the Dynamics licencing extremely low but introduces user access complexities. This was easily addressed using .NET Owin and a third-party CSC Identity Provider.

I designed and implemented the user interface using the CSC standardized CoreUI, using minimalistic and intuitive design.

• System Administration

I was responsible for maintaining releases and deploying builds to on premise Windows servers as well as setting up IIS, SSL, DNS.

• IT Security

I have followed ITSec recommendations as well as best practices, this includes application architecture and implementation. Securing site Headers (Content/Cookies), SSL, data storage, logging, auditing.

• IM/IT Business Analysis

I worked with the clients to gather business requirements and set reasonable expectations. This leads to working agilely with the client’s initial requirements to provide constant demonstrations and receive constant feed back. This has allowed us to tackle design nuances that are inevitable and get quick turn around on Records of Decision. (Demonstrations are provided via Teams Demos, and User Acceptance deployments)

• IM/IT Project Management

To work agilely I have leveraged Azure DevOps, this includes using Boards to manage User Stories, Test Cases, Features, Tasks and Bugs for Development. I use Pipelines for Continuous Development and Automated Testing to ensure all builds are tested and can be properly maintained to be redeployed to many environments.

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While working AECON - Aecon Group Inc. as the Technical Lead from June 2018 – Present I developed various Work & Inventory Load Management Application modules. This system allows Tech to view their load from Bell, manage their schedule, consume inventory, and claim time. It allows administrators pay techs, receive inventory, manage schedules, assign work orders. It allows the vendor to Manage Claims to bell as well as various compensation reports to help claim outstanding payments from Bell (as well as much more).

• Database Development

• Database Administration

This system is comprised of hundreds of tables nearing a hundred million records. I have been responsible for the design of the system and writing complex queries for reporting as well as backups and creating sanitized test and dev environments.

• Application Development

The Application was under way when I joined the Project and is a traditional LAMP application. As the application user base grew the features and security of the application have need to be developed in tandem. The application has been maintained to use current versions of PHP (7.2) and has implemented various Caching technologies for optimization.

Traditional Password Hashes have been replaced to use a Password Vectors with expirations as well as various precautions to limit login attempts.

A native Android application was developed to allow Techs to easily dispatch and complete work orders in real time.

Many automated scripts have been developed to process data to and from Bell and send Communications.

• System Administration

I am responsible for maintaining releases and deploying builds to RedHat servers over SSH. This includes Operating System and Application (Apache, MySQL, PHP) updates.

• IT Security

As times have changed, I have been responsible for maintaining and adhering to new security practices. Efforts to adhere to new Browser Security standards have been maintained.

• IM/IT Business Analysis

I worked with the clients to gather business requirements and set reasonable expectations.

• IM/IT Project Management

To work agilely I have leveraged GitHub, this includes using Issues to manage User Stories, Test Cases, Features, Tasks and Bugs for Development. Due to this position not being during traditional office hours we have been exclusively using Microsoft Teams for communication.

## (EX2) Do you have experience assisting in drafting or documenting business needs or user requirements (such as rationale, scope, functional and non-functional requirements)?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

While working at Correctional Service Canada as a CS3 from June 2018 – Present I developed the eSOR Piolet that was released for a limited time in 2019 that has led to the eSOR 2020 project that is currently under way. I have been responsible for drafting and collecting user requirements with the clients of the eSOR Project. We have had in person group meetings to gather the requirements and in the current state of working conditions have leveraged technologies such as Microsoft Teams and Azure DevOps to accommodate an agile approach to requirements implementation. User Stories were created mapping to Business requirements outlining each scenario and demos and constants updates to a sandbox are used to confirm implementation of these requirements. We keep in constant communication to discuss nuances of the business requirements and come to compromises to prevent unnecessary project scope creep and keep the project on track for deadlines.

## (EX3) Do you have significant\*\* experience analyzing complex\*\*\* IM/IT situations?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

While working at Correctional Service Canada as a CS3 from June 2018 – Present as part of the Engagement Portal Project I was required to implement “Government of Canada Credential Federation (GCCF) – Operational Values and Constraints” published by Shared Services Canada, it uses the defined CATS 2.0 protocol that must be strictly adhered to [https://github.com/canada-ca/CATS-STAE]. CATS 2.0 is built upon Security Assertion Markup Language (SAML).

Working from the Cyber Authentication Technology Solutions Interface Architecture and Specification I needed to determine how to implement the protocol practically. I set up a an open source access management, entitlements and federation server platform in the cloud on a RedHat instance for testing and development, I then configured the server to match the specification so that I could test my application was working correctly before integrating with GCCF.

Another constraint was implementing this in C# and due to the constraint that Dynamics only has .NET libraries and that I was creating a RESTful API. I needed to find a solution that would work as such. This led me to fork an Open Web Interface (OWIN) SAML repo and analyze how to use it to meet the CATS 2.0 Protocol. Due to the nuances in the CATS 2.0 protocol some modifications were made to the project.

\* https://canada-ca.github.io/CATS-STAE/archive/CATS\_V2\_0\_Deployment\_Profile\_Final\_r8\_2\_en.pdf

## (EX4) Do you have recent\* and significant\*\* experience in the provision of advice OR recommendations on IM/IT issues to management\*\*\*\*?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

While working at Correctional Service Canada as a CS3 from June 2018 – Present as part of the Engagement Portal Project I pursued a SasS product to meet the requirements of Stake Holder Communications as presented by the clients. I presented several Open Source solutions that we could host as well as Solutions that provided hosting to meet various cost and security scenarios. I set up solutions in the cloud for demonstrative purposes as well registered for various SasS products. After creating a matrix of features/costs and checking with the Legal Department we then choose to use HumHub [https://www.humhub.com/en] to meet the client’s requirements. We further decided to use their SasS product for its cost savings in support and infrastructure.

## (AEX1) Do you have experience in designing, securing or supporting Cloud-based solutions?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

While working at Correctional Service Canada as a CS3 from June 2018 – 2020 as part of the Engagement Portal Project I configured, secured, and maintained Azure App Services for continuous deployment of APIs and Web Applications. This was only for testing purposes. I deployed several RedHat servers in Azure to Demo various Open Source Collaboration solutions as well as a open source access management server for development.

## (AEX2) Do you have recent\* experience in IT service management framework and tools that support one or more of the following disciplines: incident management, problem management, change management or release management?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

While working at Correctional Service Canada as a CS3 from June 2018 – Present I have managed 2 projects eSOR and Engagement Portal. I leveraged Azure DevOps for Ticketing and Managing Releases. This includes maintaining builds, managing code, defining release cycles, regression tracking, bug tracking.

## (AEX3) Do you have recent\* experience developing or customizing large scale Commercial Off The Shelf (COTS) software such as SAP, Microsoft Dynamics, SharePoint, PeopleSoft, or GCDocs?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

While working at Correctional Service Canada as a CS3 from June 2018 – Present I developed the eSOR Piolet that was released for a limited time in 2019 that has led to the eSOR 2020 project that is currently under way. I have developed the customizations and access controls to the Solution, I created all Entities, Views and Forms as well as the Model Driven Apps. I was responsible for maintaining various dev, and uat environments as well as maintaining backups for solutions.

## (AEX4) Do you have recent\* experience in developing and maintaining technical solutions using frameworks such as ASP., .Net, C#, Java, JavaScript?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

While working at Correctional Service Canada as a CS3 from June 2018 – Present I developed the 2 projects eSOR and Engagement Portal that were Angular Front Ends backed by .NET RESTful APIs. The Angular font end is developed in TypeScript extends JavaScript technologies like RxJS, i18n and e2e play a major role. The .NET APIs were written in C# and use ApiController, Owin, Claims, Linq, MiddleWare, AuthorizeAttribute, DataAnnotations. For Dynamics specific code I use tools to generate models to keep the code maintenance low. Most of the API code has been reused between projects so proper design and decoupling is always considered.

## (AEX5) Do you have experience working in IT projects or service delivery using an Agile approach, such as Scrum or Extreme Programming?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

While working at Correctional Service Canada as a CS3 from June 2018 – Present I developed the eSOR Piolet that was released for a limited time in 2019 that has led to the eSOR 2020 project that is currently under way. I have taken an Agile approach leveraging DevOps to accomplish this. There are at minimum weekly feed back loops and Continuous Deployments.

## (AEX6) Do you have recent\* experience in the installation, configuration, monitoring and administration of Microsoft SQL?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

## (AEX7) Do you have recent\* experience developing in Microsoft SQL?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

## (AEX8) Do you have experience maintaining and administrating a Windows Server operating system platform, such as 2012R2 or 2016?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

While working at Correctional Service Canada as a CS3 from June 2018 – Present I administered the servers for 2 projects eSOR and Engagement Portal. This included patching and deploying builds, configuring IIS and various SSL and Encryption and Verification Keys.

## (AEX9) Do you have experience in administrating Windows based IT infrastructure such as web, database and application servers in all technical environments (Development / User Acceptance Test / Production), which includes securing public facing websites from potential vulnerabilities?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

While working at Correctional Service Canada as a CS3 from June 2018 – Present I administered the servers for 2 projects eSOR and Engagement Portal. These included internal and public facing Windows Servers for g Development, Testing and User Acceptance. I also managed and maintained a Cloud RedHat instance Access Management, Entitlements and Federation Server Platform. As well as other Linux & Kudu environments for proof of concepts.

## (AEX10) Do you have experience developing or contributing towards Enterprise Architecture deliverables in one of the following architectural domains as per the GC Enterprise Architecture Framework or TOGAF? :

1. Business Architecture

2. Information Architecture

3. Application Architecture

4. Technology Architecture

5. Security Architecture

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

## (AEX11) Do you have experience supporting IT security risk assessment activities?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

## (AEX12) Do you have experience monitoring devices in a corporate environment with IT Security technical safeguards such as network firewalls, Security Information Event Management (SIEM) tools, intrusion detection, Antivirus, or other prevention technologies?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

## (AEX13) Do you have experience working with project teams or clients in preparing project deliverables (for example business cases, project charters, project plans, business requirements, status reports, etc.)?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

## (AEX14) Do you have experience performing business analyst functions (for example, planning, managing and facilitating requirements gathering activities, validating requirements, conducting business process analysis, developing and documenting business process, etc.)?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

## (AEX15) Do you have experience in the preparation of operational plans, briefing notes, presentations or reports for management\*\*\*\*?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

## (AEX16) Do you have experience in supervising staff (i.e staff, students, consultants or project team members)?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

## (AEX17) Do you have experience in negotiating, establishing, or monitoring service level agreements or contracts with a service provider or vendor?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

## (AEX18) Do you have recent\* experience with the support or use of eDiscovery or evidence management platforms (such as Ringtail or NUIX)?

If you answer Yes: Please provide CONCRETE EXAMPLES including the following information:

1. Name of the department or organization where the experience was acquired (WHERE);

2. Title of the position occupied and duration (including dates) for which you exercised the functions (WHEN);

3. Specific details of tasks, projects, or accomplishments demonstrating how the experience was acquired (HOW).

## (AED1) Do you have a degree from a recognized post-secondary institution in computer science, information technology, information management or another specialty relevant to the position to be staffed ?

If you answer Yes: 1. Name of the educational institution

2. Name of diploma obtained.

3. Details about the specialization, if applicable.

(AC1) Do you have a Business Analysis Certification, such as PMI-PB?

(AC2) Do you have a Project Management Certification, such as PMP or PRINCE2?

(AC3) Do you have an ITIL Certification?

(AC4) Do you have a current certification in an IM/IT security discipline such as CISSP, CISM, CRISC or GCIA?

(AC5) Do you have an Agile Scrum certification?

In 2005 I was awarded with Honors an Ontario College Advanced Diploma in Computer Engineering Technology – Computer Science from Algonquin College.