

Jessica D. Morris

Software Development
Consultant (she/her)

Contact



<redacted>



contact@jessicamorris.dev



<redacted>



<https://jessicamorris.dev>

Education

Carleton University

Bachelor of Engineering,
*Computer Systems with High
Distinction, 2017*

Key Skills

Full-Stack
Development

Python

React/Angular

Java

nginx/OpenResty

Scrum coaching

C# and .NET

Profile

Hi there, I'm Jess, and I'm a freelance software development consultant. I'm currently on contract with Reverso, where I've been working on a .NET framework back-end and Razor Pages front-end. For my personal projects, I enjoy the FARM stack (FastAPI/React/MongoDB), generously employing dependency injection, and writing the tests first.

Professional Experience

July 2022 – Present

Ottawa, ON

Senior Software Development Consultant at Reverso

- Using test-driven development to develop features for a facade between a .NET Framework RESTful back-end and text correction engines.
- Bugfixes for front-end using Razor pages.

December 2021 – July 2022

Ottawa, ON

Cyber Developer (Report Authoring) at Communications Security Establishment

- Implemented front-end features in Angular, such as support for multi-classification environments, and automated testing using Cypress.
- Worked with the Information Management team to pilot a use case for the Digital Vault project, automation for archiving published reports. CSE's Digital Vault will be the first fully automated digital archiving system in the Government of Canada.
- Diagnosed bugs with end users and made live corrections in the database when necessary, and wrote comprehensive bug reports.

October 2019 – Nov 2021

Ottawa, ON

Cyber Developer (ObservationDeck) at Canadian Centre for Cyber Security

- Developed features for ObservationDeck, an automated cyber defence reporting system for government departments.
- Designed & implemented an automation system for transferring ObservationDeck code & data across classification systems. Received an official award of recognition from management for this system.
- Implemented RESTful microservices for enriching ObservationDeck data. One of my FastAPI-based services is being actively collaborated on with a second party.
- Designed & implemented centralized authorization control and audit logging for supporting microservices using nginx and Lua scripts.
- Implemented the Scrum process for the team.

Jessica D. Morris

Software Development
Consultant (she/her)

Contact



<redacted>



contact@jessicamorris.dev



<redacted>



<https://jessicamorris.dev>

Awards

2019

CSE Corporate Award (Team)
for Host Based Sensors program

December 2019

CSE Instant Recognition Award
for ObservationDeck Top
Secret-to-Protected B transfer
automation

October 2018

**Team Win (HoneyNet) -
GeekWeek 5**

Professional Experience (continued)

June 2018 – September 2019

Ottawa, ON

Cyber Developer (Host-Based Sensor Agent) at Canadian Centre for Cyber Security

- Added Windows 10+ support to the web browser detection module I'd developed as a student.
- Co-developed an integration testing driver for the agent, written in Python and C.
- Conducted technical interviews for prospective co-op students and employees.

June 2017 – May 2018

Ottawa, ON

Cyber Developer (Knowledge Sharing) at Communications Security Establishment

- Developed a data translation module for ingesting STIX (Structured Threat Information eXpression) 1.x-structured information.
- Led a team of 3 developers to design & implement a web interface for viewing Cyber Knowledge Base data as a directed graph, written in Angular. This interface has since been productionized and incorporated into the CCCS's Cyber Knowledge Base web application.
- Onboarded new employees, contractors, and co-op students.