

# Jessica D. Morris

Software Engineering  
Associate (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

Java

React/Angular

Python

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

December 2022 - Present

(remote) Ottawa, ON

### Software Engineering Associate (Customer Support Technology) at Atlassian

- Back-end development in Java with Spring & Spring Boot, Hibernate, GraphQL, and various tiers of caching (Caffeine, Redis) and data persistence (Postgres). Current topic of personal interest is software resilience.
- Front-end development in React with Atlassian elements.
- Led a small rebranding project, which included representing the engineering team at stakeholder meetings, organizing and facilitating a Bug Bash to test the transition from old to new branding, and tasking the team to address bugs ahead of release day.
- Driving improvements to team culture and engineering processes, such as leading Learning Hours on application security and monthly Developer Productivity reviews.

July 2022 – September 2022

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.
- Interfaced with the Information Management team to elicit system requirements and develop a roadmap to pilot the first major 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 of its kind in the Government of Canada.
- Diagnosed bugs with end users and made live corrections in the database when necessary, and wrote comprehensive bug reports and high-priority tasks for fixes.

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## 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)

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.

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.