




# Awwab Mahdi

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## Experience

**Department of National Defence Canada** **January 2025 - August 2025**  
Data Science Developer 285 Coventry Rd., Ottawa, ON

### Term 2

- Reworked an existing Protected B government application to replace Azure cloud services with local ones, and produced an exhaustive report on its capabilities
- Co-authored a research paper on the DocStructNet model, submitted for publication at ICPRAM 2026
- Used the AWS fmeval library, along with ECS, EC2, S3 and SageMaker to deploy a government chatbot with an evaluation pipeline

### Term 1

- Implemented, trained, and tested an optimized 40M parameter document segmentation model(DocStructNet), with 97% accuracy on DocLayNet and PubLayNet datasets
- Wrote a custom GRPC client to interface with the Seamless translation model, and tested the model to determine BLEU score
- Tested and debugged a custom transformer based OCR model, and wrote comprehensive documentation for its codebase

**IRM Consulting & Advisory** **December 2023 - January 2024**  
AI Developer Remote

- Finetuned an open source LLM from the Hugging Face model library that enabled GPU costs to be reduced by 90%
- Cleaned CIS Controls data from SCF, SOC II, CMMC and other cybersecurity frameworks
- Used LangChain and HuggingFace embeddings to build a file-based chatbot that was able to effectively interact with clients and respond to queries

**eWorx Technology** **September 2022 - June 2023**  
Mobile App Team Colead Remote

- Studied Figma best practices and built several mock-ups to present to the client
- Translated Figma components into functional React Native components
- Used a provided REST API to integrate live data into the app

## Education

**Carleton University** **September 2021 - December 2025**  
Bachelors of Computer Science Cybersecurity Stream

## Profiles

 [a--ab.com](http://a--ab.com)  [AwwabM](https://github.com/AwwabM)

 [obliviance](#)

## Skills

### Programming Languages

Python, Bash, JavaScript, C#, Java, C++, C, SQL

### ML Technologies

PyTorch, Keras, TensorFlow, Nvidia Triton Server, LangChain

### Web Technologies

HTML/CSS, React.js, React Native, Node.js, MongoDB

### Developer Software

Git, Docker, Wireshark, Figma, WordPress, Unity

### Other Technologies

Linux, Android, IP/TCP/UDP, Real Time Systems, Agile, Azure DevOps, CI/CD, Cloud Providers(Azure, AWS, GCP)

## Publications

**DocStructNet: A Foundational Model for Semantic Segmentation of Complex Document Layouts**  
Preprint (ICPRAM 2026)  
**September 2025**

## Languages

### English

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### French

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### Urdu

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