

Youssuf Hichri

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EDUCATION

Algonquin College

Cloud Development And Operations

Ottawa, ON

January 2026 - December 2026

Carleton University

Bachelor of Science (Honours) in Computer Science

Ottawa, ON

October 2025

EXPERIENCE

Software Developer Co-op

Canada Revenue Agency (CRA)

Sep. 2022 – Dec. 2024

Ottawa, ON

- Designed and optimized SQL queries for efficient data retrieval and reporting across multiple database systems, improving data processing speed and accuracy
- Built and maintained enterprise applications using Apache Struts, Java Spring Framework, JavaScript, and the WET toolkit, integrating front-end components with backend services
- Authored comprehensive user stories and acceptance criteria in JIRA for key features, facilitating clear communication between business and development teams
- Collaborated with Business Analysts to transform design wireframes into functional prototypes, showcasing work in routine meetings and incorporating feedback to ensure alignment with business requirements
- Developed an admin reporting portal using Struts, Spring Boot and JavaScript, allowing users to execute predefined PostgreSQL queries and export results to Excel, significantly improving data accessibility

PROJECTS

Cloud Resume Challenge | AWS, Python, GitHub Actions, DynamoDB

- Designed and deployed a serverless resume website using AWS services (S3, CloudFront, Lambda, API Gateway, DynamoDB) with custom domain and HTTPS, implementing infrastructure as code principles
- Developed Python-based REST API backend with unit tests achieving 100% code coverage, implementing atomic operations for visitor tracking with DynamoDB
- Automated deployment workflows using GitHub Actions CI/CD pipelines, including pytest execution, Lambda function updates, S3 synchronization, and CloudFront invalidation

Sarcasm Detection System | Python, TensorFlow, LSTM, Transformers

- Developed an ensemble deep learning system using LSTM, Attention, and Transformer architectures for sarcasm detection in articles
- Implemented data preprocessing pipeline and custom data generators for efficient batch processing
- Achieved 85% accuracy through model ensemble techniques and comprehensive hyperparameter optimization
- Created visualization tools for model performance analysis using matplotlib and seaborn
- Built modular architecture supporting easy integration of new model architectures

Feynman.AI | Next.js, React, TailwindCSS, GROQ API, Whisper

- Developed an AI-powered educational platform using Next.js, React, and TailwindCSS, integrating GROQ API for real-time feedback
- Implemented audio processing features using Web Audio API and Whisper Large v3 for transcription
- Led frontend development in a team of 4, focusing on responsive design and real-time user interaction
- Architected state management system using React Hooks for seamless user experience

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL (PostgreSQL), HTML/CSS

Frameworks: React, Next.js, Spring Boot, Apache Struts, Node.js, TailwindCSS, Flask

Developer Tools: Git, GitHub Actions, AWS (S3, Lambda, CloudFront, API Gateway, DynamoDB), Docker, JIRA

Libraries: TensorFlow, NumPy, pandas, matplotlib, seaborn

Certifications: Jr Penetration Tester (Tryhackme), AWS Certified Cloud Practitioner (AWS)