



HATEM FEKI

425 Rue la Montagne Montréal, Quebec

☎ +1 438-922-1112 ✉ hatem.feki.1@ens.etsmtl.ca  [linkedin.com/in/fekihatem](https://www.linkedin.com/in/fekihatem)  github.com/fekihatem11

Education

ETS –School of Higher Technology, Montreal

May. 2024 – Present

Research Master - Software engineering and AI

Grade: 4.1/4.3

- Awarded the PBEEE – Merit Scholarship for Foreign Students offered by the Fonds de recherche du Québec (FRQ).
- Awarded the Tuition Fee Waiver Scholarship issued by TUNISIAN REPUBLIC.
- Awarded the Globalink graduate fellowship issued by Mitacs.

ENSIT –National Higher Engineering School Of Tunis

Sep. 2020 – Nov 2023

Engineering Degree - Software engineering

IPEIEM –Preparatory Institute For Engineering Of El Manar

Sep. 2017 – May 2020

Pre-engineering Degree - Technical and physics

National rank: 146/550

Experience

École de technologie supérieure (ÉTS)

July 2025 – Present

AI Platform Developer

Montreal, Quebec

- Designed a modular architecture integrating LibreChat, LiteLLM, RAG-API, and Meiliseach into a unified platform.
- Configured NGINX and LiteLLM as reverse proxies to route, and standardize access to diverse LLM providers.
- Containerized all services, CI/CD pipelines, and Kubernetes orchestration.
- **Key words:** LibreChat, LiteLLM, RAG, Ollama, K8s, CI/CD

École de technologie supérieure (ÉTS)

Feb 2025 – Present

Teaching Assistant

Montreal, Quebec

- Supported students in JAVA, OOP, data structures, and software design.
- Provided technical assistance and debugging support to 35+ students.
- Reviewed and graded programming assignments.
- Promoted clean code, problem-solving, and development best practices.
- **Key words:** JAVA, OOP, Data Structure, Algorithms, Code Review, Academic Support

LASI – Computer System Architecture Research Laboratory, (ÉTS)

Jan 2024 – Present

Research Assistant

Montreal, Quebec

- Applied NLP and large language models (LLMs) for topic modeling, data collection, and analysis in a study of Hugging Face-related discussions on Stack Overflow.
- Designed and implemented reinforcement learning (RL) agents for test prioritization to optimize fault detection.
- Supervised an intern, providing technical guidance and task coordination.
- Contributed to research publication efforts, including paper writing, experiment design, and result interpretation.
- **Key words:** RL, DNN, LLM, Test Prioritization, NLP, Topic Modeling, Data Analysis, Data Mining

Athabasca University

Feb 2023 – Aug 2023

Software Engineering Research Internship (Mitacs Globalink Scholarship)

Alberta, Canada

- Developed a holistic Telemedecine mobile application using Flutter.
- Enabled text, voice, and live video communication between doctors and patients within the app.
- Integrated a medical language translator using Microsoft's cognitive services speech-to-text API.
- Implemented Optical Character Recognition (OCR) for converting patient data images into text files.
- Collaborated with a multidisciplinary team using Scrum, contributing to sprints, stand-ups, and retrospectives.
- **Key words:** Flutter, Firebase, OCR, speech-to-text API

Publications

IEEE COMPSAC 2025

Aug 2025

Conference Publication

Toronto, Canada

- H. Feki, M. Abdellatif and M. Sayagh, "An Empirical Study on Hugging Face Trends, Topics and Challenges on Stack Overflow," 2025 IEEE 49th Annual Computers, Software, and Applications Conference (COMPSAC), pp. 1297-1307.

Academic Projects

DevOps Pipeline Implementation for HVAC Control Systems

- Configured GitLab Issue Board (Kanban) with custom templates, labels, and branch policies.
- Designed and implemented a RESTful Metrics API using FastAPI connected to PostgreSQL.
- Built CI/CD pipelines on GitLab to automate testing, building, and deployment to Kubernetes clusters
- Configured Grafana dashboards connected to Prometheus to monitor the process metrics and infrastructure metrics
- **Key words:** CI/CD, Docker, Kubernetes, Prometheus, Grafana, Webhooks,

Microservices Project

- Developed microservices using Spring Boot, Hibernate, Restful services.
- Used Spring Cloud Gateway to route to APIs.
- Established synchronous communication between microservices using Feign.
- Created a discovery server using Eureka.
- Added fault tolerance pattern like circuit breaker and rate limiter.
- Secured the api gateway with Spring Security and its OAuth 2.0.
- **Key words:** Spring Cloud Config, Eureka, Feign, Resilience4j, Hibernate, Api gateway, Spring Security, Github

Leadership & Extracurricular Activities

Junior Enterprise

2021 – 2022

Project Manager

Ensit

- Led a team of 30+ members, delegating roles and responsibilities effectively.
- Gathered client requirements, communicate project progress, and ensure client satisfaction.
- Developed a comprehensive project plan that includes objectives, scope, deliverable, timelines, and budget.

Skills

Languages: Python, Java, C/C++, Dart, HTML/CSS, JavaScript, SQL

Frameworks: Angular, Spring Boot, Node.js, Flutter, FastAPI

Databases: MongoDB, MySQL, PostgreSQL, Firebase

Version Control: GitHub, GitLab

Speaking Languages : English, French, Arabic