

# Tawfic Abdul-Fatah

Software Developer | Python | Generative AI

Montreal, PQ, Canada

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*For detailed certifications, project links, and interactive content, visit the online version at: <https://tawficfatah.github.io>*

## Summary

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Experienced software developer transitioning to Python with expertise in generative AI and prompt engineering. Background spans full-stack web development, database design, and teaching computer science. Proven track record working with diverse tech stacks from legacy systems to modern frameworks.

In an ancient life, I worked as a C programmer using Unix-based middleware, then became a Java programmer focusing on web applications. I decided to go back to school to study Computer Science and Mathematics—this was before MOOCs. During my school years I worked as a TA, primarily helping with first and second year computer science courses. I am currently transitioning to my favorite language, Python, and getting acquainted with Prompt Engineering, GenAI, and AI programming in general.

## Technical Skills

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### Languages:

Python, SQL, JavaScript, Bash, C (Past: C#, Java)

### Frameworks:

ASP.NET Core, Entity Framework, Vue.js, J2EE

### AI & Automation:

ChatGPT, Claude, Claude Code, Prompt Engineering, Generative AI

### Python Libraries:

Pandas, NumPy, Matplotlib, Plotly, Dash, scikit-learn

### Databases:

MS SQL Server, PostgreSQL, Oracle, DB2, SQLite

### Tools:

Git/GitHub, Jira, Confluence, Docker, Linux, Jupyter Notebooks

## Professional Experience

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## Software Developer

Labgo | Montreal, Quebec, Canada

*September 2021 - August 2022*

Labgo is an initiative led by John Abbott College, Cégep Gérard-Godin and Collège de Bois-de-Boulogne, connecting IT professionals with real-world projects. Worked on a full-stack web application for IroSoft using Vue.js, .NET Core, and MS SQL Server.

- Designed normalized database schema (3NF) for the application
- Developed RESTful API controllers using ASP.NET Core and C#
- Implemented data access layer using Entity Framework Core
- Created comprehensive backend service tests using xUnit
- Developed frontend automated tests using Selenium WebDriver with Python
- Managed code repository using Git/GitHub and coordinated sprints via Jira

**Technologies:** .NET Core 3.1, ASP.NET Core, Entity Framework Core, C#, MS SQL Server 2019, Vue.js 2.1, JavaScript, Git/GitHub, Selenium, Python, Jira, Confluence

## Undergraduate Teaching Assistant

Carleton University | Ottawa, Canada

*September 2013 - December 2019*

Supported computer science courses spanning introductory to advanced topics while pursuing degree.

**Courses:** Introduction to Computer Science I & II, Business Applications Development, Introduction to Systems Programming, Abstract Data Types and Algorithms, Introduction to Computational Thinking

- Conducted lab sessions and tutorials for undergraduate students
- Graded programming assignments and midterms
- Held office hours for student consultation
- Taught Python, Java, C, Linux, OOP, OOA, and UML

## Programmer

Canada Revenue Agency | Ottawa, Ontario, Canada

*May 2009 - August 2010*

Worked with DB2 and WebSphere support groups across two contract periods.

- Troubleshoot database and application server issues
- Automated routine tasks using scripting
- Evaluated and assessed new technologies for adoption
- Assisted with testing new installations and upgrades

**Technologies:** DB2, SQL, Java, JDBC, J2EE, PureXML, z/OS, Linux/Bash

## Software Developer

Digital Oilfield | Calgary, Alberta, Canada

*October 2002 - August 2004*

Developed web application for online invoicing tailored to the Oil and Gas industry.

- Developed JSPs and Servlets using Java and J2EE
- Implemented business logic and database interactions
- Worked with Oracle database and Weblogic application server

**Technologies:** Java, J2EE, SQL, Oracle, Weblogic

## Education

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### Bachelor of Computer Science (High Distinction)

Carleton University | December 2018

Minor in Mathematics

### AEC Analyste Programmeur

Collège de Bois-de-Boulogne | October 2021 - August 2022

Programmer Analyst

## Professional Certifications

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### DataCamp Professional Certifications

**10 tracks completed:** Python Developer, Associate Python Developer, Data Analyst, Associate Data Analyst, Associate Data Engineer, Python Programming Fundamentals, Python Programming Toolbox, Python Data Fundamentals, Data Visualization with Plotly and Dash, GitHub Foundations

**Skills:** Python Programming, Data Analysis, SQL, Data Engineering, ETL Pipelines, Plotly & Dash, Git & GitHub

### Coursera Professional Certifications

**4 specializations:** ChatGPT: Master Free AI Tools to Supercharge Productivity, Generative AI Automation, Prompt Engineering, Generative AI Assistants

**Advanced Course:** Claude Code: Software Engineering with Generative AI Agents

**Skills:** Generative AI, Prompt Engineering, ChatGPT, AI Automation, Claude Code, AI Assistants, AI-Assisted Development

## Languages

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**English:** Native or Bilingual | **Arabic:** Native or Bilingual