

Ousmane Telly Touré

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[LinkedIn](#)

EDUCATION

Bachelor's degree in Computer Engineering

Since 2019

Laval University, Quebec

- Cumulative GPA: 3,17/4,33

COMPUTER AND TECHNOLOGICAL SKILLS

- **Electronic Design:** C/C++
- **Web Application Development:** Python, C#, HTML, CSS
- **Database:** Azure SQL
- **Software and Platforms:** MATLAB/Simulink, Altium Designer, Visual Paradigm, Wireshark, Git, Postman, SharePoint
- **Cloud Computing:** Microsoft Azure specifically Azure Cognitive Services, Azure SQL Database, Azure Blob, Azure Data Factory
- **Web Application Development Environment:** Microsoft Visual Studio, Visual Studio Code, PyCharm
- **Electronic Design Environment:** Arduino IDE, TinkerCad, STM32CubeIDE, Atollic TrueStudio
- **Microcontrollers:** Arduino Uno, Arduino Mega 2560, STM32F407VG
- **Application Programming Interface (API):** Azure OpenAI API, Confluence API
- **Instrumentation and Hardware:** PCB Assembly and Soldering
- **Familiarity** with communication protocols such as **SPI, I2C, UART**
- **Ability** to interface devices through **DMA (Direct Memory Access), interrupts and active polling.**

SPECIAL SKILLS

- Curiosity, organizational skills and responsibility.
- Interest in electronic design and web application development.
- **Language:** Anglais (VEPT: 60 | TOEIC: 800)
- **Health and Safety:** WHMIS Training (Workplace Hazardous Materials Information System, Laval University 2022)
- **Extra credits:** Microeconomics (2020), Structural Biochemistry (2022), Introduction to Mobile Robotics (2022), Parallel and Distributed Programming (2023)
- **Fiber Optics Training** (Bell 2021)

RELEVANT EXPERIENCES IN COMPUTER ENGINEERING

Barcode Reader Design

Winter 2022

Design II Course, Laval University, Quebec

- Designing a prototype barcode reader according to client specifications.
- Programming a simulator to validate the prototype's performance.
- Using the Arduino Mega 2560 microcontroller.
- Using MATLAB/Simulink for the Simulator.

Embedded Project

Fall 2022

Microprocessor System and Interface Course, Laval University, Quebec

- C programming for **UART** driver.
- C programming for **ADC (Analog-to-Digital Converter)** driver.
- C programming for modules enabling **DMA (Direct Memory Access)** transfer.
- Using the **STM32F407VG** microcontroller and **FT232** UART device.
- Interfacing a 16x2 LCD with microcontroller.
- **Project Goal:** Reading the output value of a 10K potentiometer using ADC, displaying it on the LDC and transferring it via DMA and UART to a Python Program for graphical display.

Law Document Parser Project

Summer 2023

KPMG Canada, Microsoft - Generative AI, Quebec

- Allowing upload of legal documents, extracting specific metrics, and asking questions about document content to a ChatGPT-type AI model.
- Creating database tables to store downloaded file content, file type information, and targeted metrics.
- Using Azure Cognitive Services and OpenAI's ChatGPT AI model resources

Blue Cross – Confluence Project

Summer 2023

KPMG Canada, Microsoft - Generative AI, Quebec

- Designing a web application connected to the enterprise content management software, Confluence by Atlassian.
- Allowing users to ask questions directly related to Confluence content, answered by a ChatGPT-type generative AI model.
- Using Azure Data Factory to retrieve Confluence HTML content, process it, store it in a database after removing HTML tags.

CONTINUED RELEVANT EXPERIENCES IN COMPUTER ENGINEERING

Field Service Technician

Summer 2021

Bell Solutions Techniques, Quebec

- Configuring Bell client Wi-Fi networks
- Performing various repair tasks

AESGUL Tutor (Association of Students in Sciences and Engineering, Laval University)

Fall 2021

Laval University, Quebec

- Assisting students in understanding course material and deepening certain concepts.

Teaching Assistant

Fall 2022 – Winter 2023

Advanced C++ Programming, Laval University, Quebec

- Assisting students in understanding course material and deepening certain concepts.
- Grading practical assignments and exams.
- Supervising exams.

Teaching Assistant

Fall 2022

Linear Systems and Controls, Laval University, Quebec

- Assisting students in understanding course material and deepening certain concepts.
- Grading lab reports and exams.
- Supervising exams and labs.

Backend Developer Intern

Summer 2023

KPMG Canada, Microsoft – Generative AI, Quebec - Montreal

- Designing AI-based web applications.
- Getting acquainted with various resources on Microsoft's Azure cloud application platform.
- Documenting new technologies to enhance team knowledge management.

OTHER WORK EXPERIENCES

Warehouse Clerk

Fall 2020 – Winter 2021

La Maison Simons, Quebec

Warehouse Check

Summer 2020

Structube, Montreal

Online orders Specialist

Fall 2022

BestBuy, Quebec

SOCIAL ACTIVITIES AND ENGAGEMENTS

Volunteering for Table de Pain

Laval University, Quebec

Fall 2022 - Fall 2023

Mentor for the Foreign Student Matching Program

Laval University, Quebec

Fall 2021 – Winter 2023

SCHOLARSHIPS

Excellence Scholarship – Citizens of the World

Winter 2022 and Winter 2023