

Nikola Tutić

Portfolio at tutic.ca
↳ Java, Spring, AWS

github.com/ntutic

+1 819 349-3340
nikola@tutic.ca

7744-B rue Saint-Denis
Montréal, H2R 2E8

Profile

Originally a biologist, I transitioned into programming to address my needs and interests for automation and data processing, from which point I found a passion software development and the myriad possibilities it opens up. Having completed a variety of projects for independent clients while being mostly self-taught, I've demonstrated my versatility and resourcefulness in solving business problems through programming. To overcome the limitations of working as a lone developer, I am looking to join a team so that I can take my skills to the next level.

Portfolio Highlight

- ◆ [Chrome extension](#) for timesheet used by a company of >70 employees
↳ JavaScript, API integration, Manifest V3, HTML, CSS
- ◆ **Desktop applications** for controlling feeders, in dairy farming
↳ Python, Qt, serial communication, Modbus, HTTP
- ◆ **Image processing** and manipulation client-side with 3D product model
↳ JavaScript, ThreeJS, DOM canvas, Shopify
- ◆ **Scraping solutions** for integrating unstructured web data
↳ Python & JavaScript, scrapy, Selenium, APIs, HTTP, SQL
- ◆ **System administration**, scripting, hosting, pipelines, CI/CD
↳ bash, Linux / Debian, Docker, nginx, Jenkins, AWS, Cloudflare

Experience

Software developer (freelance)

2022 – Current
Online

Upwork (profile and reviews on tutic.ca/upwork)

- ◆ **Solo development** of software solutions for multiple clients
- ◆ **Client outreach** with budget proposals, tools, and architecture
- ◆ **Integration** of tools and concepts specific to different fields of expertise

Technician & software developer (contractual)

2021 – 2023
Sherbrooke, Canada

Oneka Technologies

- ◆ **Developing** a Chrome extension and GIS scripts
- ◆ **Monitoring** bench tests and remote equipment at sea

Project manager

2018 – 2020

*Organisme des bassins versants Vaudreuil-Soulanges
Conseil de l'eau Gaspésie Sud*

*Saint-Polycarpe, Canada
Bonaventure, Canada*

- ◆ **Planning** and grant seeking for riparian conservation projects
- ◆ **Collaborating** with municipal, agricultural and private stakeholders

Technical support*Sykes Enterprises*2017 – 2018
Sherbrooke, Canada

- ◆ Bilingual service for customer support of a mobile phone provider
- ◆ Replacement as floor supervisor and instructor

Agro-entrepreneur*Écollab (now Agropol)*2016 – 2017
Sherbrooke, Canada

- ◆ Production of microgreens, honey and vegetables
- ◆ Direct sales in farmers' markets and to restaurants

Analyst (4-month internship)*Québec's environment ministry (MELCC)*2016
Rimouski, Canada

- ◆ Processing requests for certificates of authorization related to water bodies
- ◆ Understanding laws and jurisprudence related to construction and mines

Research assistant (4-month internships)*Lab of vegetal ecology (Université de Sherbrooke)**Lab of tropical entomology (ECOFOG)**Lab of snail conservation (Univeristy of Honolulu)*2014 – 2016
Sherbrooke, Canada
Kourou, French Guiana
Honolulu, United States

- ◆ Rigorous protocol execution and development on the field and in the lab
- ◆ Literature review of science papers for analysis and redaction

Education**Big data development***Attestation of collegial studies (AEC)*2022 – 2024
Collège Bois-de-Boulogne

- ◆ Management and processing of distributed data systems
- ◆ Big data and ETL tools like Spark, Hadoop, Kafka, Flink, Airflow and more

Geomatics*Advanced graduate diploma (DESS)*2020 – 2021
Université de Sherbrooke

- ◆ Geospatial data at their fundamental and applied levels
- ◆ GIS tools for cartography, data processing, reporting and analysis

Ecology*Undergraduate degree (bachelor's)*2013 – 2016
Université de Sherbrooke

- ◆ Science of the relationships between organisms and their environment
- ◆ Statistics and analysis on messy ecological data

Languages

- ◆ French native
- ◆ Serbo-croatian native
- ◆ English equivalent to native
- ◆ Spanish intermediary

Personal Interests

- ◆ Travel and nature
- ◆ Running and training
- ◆ Reading and learning
- ◆ Computers and coding