



Nikola Tutić

Portfolio at tutic.ca

Code at github.com/ntutic

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Profile

Biologist turned developer, I got into programming to solve my needs for automation and data processing before getting hooked on it, striving to deepen my mastery over the long term. The variety of commissioned projects I've completed with freelancing has let me prove my versatility and resourcefulness as I now seek to progress within a team.

Stack

Lang: Python, JS, Java, C, Excel, VBA, R

Data: SQL, PostgreSQL, MongoDB,

PyModbus, pyserial, Spark, Hadoop

Scraping: Scrapy, Selenium, HTTP

GUI: Qt, PySide6, MS Access, pystray

Web: APIs, HTTP, Chrome Manifest,

MVC, SPA, Django, Spring, templates

Cloud: AWS EC2, RDS & Lambda

and more...

Portfolio Preview

- ◆ Desktop interfaces controlling machines in the dairy industry
- ◆ Chrome extensions augmenting or overhauling dynamic sites' functionality
- ◆ Integrated solutions for scraping and processing of unstructured web data
- ◆ Workflow automation of repetitive desktop or web tasks

Work Experience

Freelance Software Developer

2022 – Current

UpWork (profile and reviews at tutic.ca/upwork)

Remote

- ◆ Design and development of software solutions meeting client mandates
- ◆ Integration of tools and concepts specific to various fields of expertise
- ◆ Extensive communications for client relations and outreach

Contractual Technician & Software Developer

2021 – Current

Oneka Technologies

Sherbrooke, Canada

- ◆ Chrome extension for timesheet management used by >60 employees
- ◆ Scripting for oceanographic geospatial data processing
- ◆ Monitoring of test bench and of remote buoys

Project Manager (as Biologist)

2018 – 2020

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

*Saint-Polycarpe, Canada
Bonaventure, Canada*

- ◆ Conception and execution of riparian strip conservation projects
- ◆ Outreach and collaboration with municipality officials and land owners
- ◆ Use of GIS and computer tools to facilitate work on these ongoing projects

Technical Support*Sykes Enterprises*

2017 – 2018

Sherbrooke, Canada

- ◆ Replacement floor supervisor and instructor
- ◆ Second level customer support for a mobile phone provider (FR & EN)

Agro-Entrepreneur*Écollab (now Agropol)*

2016 – 2017

Sherbrooke, Canada

- ◆ Production of microgreens and honey for restaurants and farmers markets
- ◆ Construction of farming installations and maintenance of large gardens

Analyst (4 month internship)*Québec's environment ministry (MELCC)*

2016

Rimouski, Canada

- ◆ Processing of authorization certificate requests related to water bodies
- ◆ Writing reports and communications on behalf of the ministry

Research Assistant (4 month internships)*Lab d'écologie végétale (Université de Sherbrooke)*

2014 – 2016

*Sherbrooke, Canada**Lab d'écologie d'arthropodes tropicaux (ECOFOG)**Kourou, French Guiana**Tree Snail Conservation Lab (University of Honolulu)**Honolulu, United States*

- ◆ Development and execution of rigorous field and laboratory protocols
- ◆ Reviewing scientific literature for analysis and writing

Education**Big Data Development***Collegial attestation(AEC) – (part-time, evenings)*

2022 – Current

Collège Bois-de-Boulogne

- ◆ Notions on data management, processing and security
- ◆ Exploration of big data tools likes Spark, Hadoop, Kafka, Flink and more

Geomatics*Graduate studies (DESS)*

2020 – 2021

Université de Sherbrooke

- ◆ Fundamentals of cartography, geospatial data and remote sensing
- ◆ Application of GIS tools for data analysis, chain processing and mapping

Ecology*Undergraduate degree (bachelor's)*

2013 – 2016

Université de Sherbrooke

- ◆ Study of relationships between living organisms and their environments
- ◆ Analysis of messy ecological data from field or lab protocols

Languages

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

Pesonal Interests

- ◆ Travelling and nature
- ◆ Running and cyclism
- ◆ Culinary exploration
- ◆ Finance and stock markets