

Anthony Nadeau

Tutoring Information Document - Computer Science Tutoring

Tutor Description

I, Anthony Nadeau, am a tutor for Computer Science, and I am qualified in the following subjects/fields:

- Programming 1 - Java (Primitive Data Types, understanding basic programming structures such as if/else, switch case, looping structures, and data structures, Object-Oriented Programming and Methods)
- Programming 2 - Java (Abstraction, Encapsulation, Polymorphism, Inheritance, and many additional concepts such as GUI, File I/O, Exception Handling, and Interfaces)
- Programming 3 [Patterns and Data Structures] - Java (Implementing Generic Data Structures, Lambda expressions and streams, Collections and Maps, Design Patterns such as Factory Method, Singleton, MVC, and more. Experience also extends to Internationalization and Multi-Threading)
- Application Development 1 - C# (Everything noted above for Java, but in C#, parsing JSON, Databases and LINQ, and Better GUI design, .NET development for Windows)
- Application Development 2 - Java (GUI design in Android Studio, Image, Sounds, and Videos in an Android development context. Fragments, RecyclerView, Local SQLite Databases, Graphics and animation, using JSON data and understanding API connections, Cloud Firebase Databases, Firebase Authentication, Geolocation API, Implementation of functional chat, Other Android related functions such as communication between pages, Dialog boxes, Notifications and Alarms)
- Database - SQL (Understanding the basics behind SQL and Query languages as a whole, Use of a DBMS both locally and in the cloud, Proficiency in Entity-Relationship diagrams, Higher level SQL concepts such as triggers)
- Computer Hardware and Networking - Anything related to computer hardware and the inner workings of a computer, Hardware and Software diagnostics, understanding Operating Systems and the command line, building computers and more. Networking concepts such as the OSI reference model, IPv4 vs IPv6, different Networking protocols, packet tracing and subnet development, and anything primarily based in the physical networking layer (Network Hardware)

- eCommerce Platform Development - PHP (Using PHP to develop custom eCommerce platforms, Use of MVC, Applying authentication strategies, Use of web APIs, Acceptance testing, CI/CD)
- System Development - Concepts related to finding a client and developing a product from start to finish for the client. Involves stages such as research of the market, analyzing existing systems, and working with the client to tailor the experience to what they want it to be
- Game programming - Unity (Using the various tools, frameworks, libraries of Unity to develop full-fledged 3D games. Includes the development cycle of a video game, programming in C#, Cloud databases for gameplay data, and animations)
- IoT System Design and Development - Python (Using Arduino and Raspberry Pi technologies to develop and understand IoT systems. Understanding the various components of an IoT system, what is IoT, and important concepts and technologies. Also includes programming in python to design software to control these systems)
- Ethical Hacking - Using ethical hacking tools and practices with Kali linux and virtual machines to safely practice penetration testing through all of the crucial steps (footprinting, fingerprinting, gaining access, enumeration, post-exploitation, and more).

Overall Experience

My overall experience in Computer Science and Teaching fields are as follows:

June 2018 - June 2022

I've worked as a Computer Repair technician and tech consultant for approximately 4 years with Staples Canada. I've developed plenty of experience explaining complicated technological concepts in a way that is understandable by most.

August 2020 - June 2023

Additionally, I've completed a 3 year DEC in the Computer Science Technology Program at Vanier College, meaning I have 3 years of programming knowledge with a few exceptional cases prior to starting the program.

December 2021 - July 2022

I've worked as a student supervisor, and general subjects tutor for students in elementary schools for a little less than a year

January 2022 - May 2022

I completed a full internship with the supply and demand team at Hydro-Quebec developing python solutions for ways to present data in a complex framework.

2022 - Present

And finally, I've completed one semester of tutoring with the Vanier College tutoring and academic success center, and I also tutored independently for the entirety of summer 2022.

What you can expect as my tutee

Here's what you can expect from **me** as a tutor:

- **Patience.** I believe this is a foundation for all forms of teaching/tutoring. As my tutee, I am committed to helping you understand the material, and my philosophy is that when there is something you don't understand, it just hasn't yet been explained in a way that is best for you.
- **Communication and Openness.** If there is something you don't fully understand, ask me questions, and I will try to rephrase, or provide different aids to help you attain the knowledge you need.
- **Variety in teaching types.** Everyone learns in a different way. If you prefer for me to explain in writing, verbal explanation, drawings, or anything of the sort, I will accommodate what is best suited for you specifically.
- **And of course, friendliness.** I'm not a teacher, and I'm not in a position of authority over anybody. I myself am a student, and I understand the struggles of studying in this field. If you want to talk about the content, the difficulty, or if you're seeking advice on how to manage the content, I encourage it 100%.

Here's what you can expect from the **content** being presented:

- **Flexibility.** I can walk you through the content provided by your professor or teacher to help you break down what they want you to understand from the material. We can then build upon that material to solidify your understanding.
- **Original Practice Questions and resources.** Depending on the topic being covered, I offer small-scale "assignments" that allow you to deepen your knowledge of the topic. For each assignment I offer, I will fully explain the assignment, take any questions you may have, and should you need it, we can plan a session to complete the assignment together. These assignments are entirely original, and I often design them specifically for the person of whom they've been assigned. Also note, of course these assignments are not *mandatory* but rather they are *heavily encouraged* as they can give you much needed practical experience.
- **Detailed and Qualified aid.** I am very confident in my abilities, and I can assure a quality of tutoring that will most definitely help you gain the success you are working towards.

Schedule

We can establish a schedule around what works best for the both of us. However, I offer a maximum session time of 3 hours per day, and a minimum session time of 1 hour per session, per tutee. These times are subject to change depending on a variety of factors.

Planned Days of Unavailability

Any days of which I am unavailable during the times stated above, will be disclosed a minimum of 1 week in advance. The schedule for the week will also be confirmed once per week, meaning each week a schedule will be made with the appointments for the week. These appointments will be noted on a Google Calendar, as well as other resources that will be available to both parties. Any days I am unavailable will also be noted on such resources. Additionally, I reserve the right to cancel a session should I be ill or if an emergency arises, but with the promise that it will be postponed should the tutee wish to schedule another time in the week.

Options for tutoring methodology

Should you reside outside of Montreal or the South Shore of Montreal, Quebec, Canada, I offer tutoring in online formats. The platform on which sessions are held are up to the tutee. The platforms I am most familiar with are the following:

- Zoom
- Teams
- Google Meet
- Discord
- Slack

Should you reside on the island of Montreal or along the South Shore of Montreal, Quebec, Canada, I offer tutoring in online and in-person formats. For online, please refer to the paragraph above. For in-person, I require that the session be the maximum length, and that a \$30 transportation fee be paid in addition to my rate for the session. You must also have your own computer with the required software already installed by the time the session begins. As for location, I can tutor in a private residence or in a public location with WiFi such as a café or similar. If you are a student in CEGEP, we may also meet at your campus if it is open.

In addition to those formats, I also offer group sessions. These are sessions that include multiple people (2 or more. Maximum 5). I offer these sessions at a reduced rate per person, however, it also comes at the cost that I may not be able to give my entire focus to a single person. Group sessions are much more akin to a classroom setting, however if you wish to be

tutored with your friends or classmates, it is an option available for you. Group sessions are offered online or in-person, depending on your eligibility from the prior two paragraphs.

Rate for my tutoring service

The table below presents my rate for the various methodologies above:

Number of tutees in a session	Private (1 person)	2 people	3 people	4-5 people
Rate per hour per person	\$30	\$25	\$20	\$18

Please note that in-person tutoring requires a \$30 additional fee per session to cover transportation costs.

Payment information

Should my tutoring services interest you, a payment plan can be established on a case-by-case basis before the required contract is signed. Payment is accepted in the form of an e-transfer to either my email at tonynadeau03@gmail.com or my phone number at 450-517-2737.

Means of Contacting me

I will be regularly checking my email at the following addresses:

- tonynadeau03@gmail.com
- thegoldenrailway@gmail.com

Or you can reach me at my cell phone number at 450-517-2737.

Overall, should my services interest you for any of the aforementioned courses, feel free to contact me and I will be happy to form a structure that benefits both parties as much as possible