

Ernesto Sanchez

ernestosanchez8888@gmail.com | (647) 786-8014 | Toronto, Ontario | [LinkedIn](#) | [GitHub](#)

Full stack web developer. Genuine programming languages I use include, JavaScript, Python, C++. Full list of skills below. I am precise in meeting deadlines, tend to have good creativity, and strongly believe in the power of effective teamwork. I heavily use TDD for robust software and debugging advantages, very effective with using Git/GitHub (Branching/Kanban) in fast paced environments. During my studies in Electrical Eng. at Carleton U; C++, Java and Python were heavily used, I have implemented object oriented programming (OOP) to implement complex algorithms to solve intricate situations. In April 2022, I graduated from the University of Toronto's' Full Stack certification with flying colors, strengthening my understanding of the full stack environment. I am passionate about finding optimal solutions to problems. Furthermore, I enjoy collaborating with others to learn and create meaningful web applications. With each project, my aim is to best engage my audience for an impactful user experience. Check out my [Portfolio Page](#).

Projects

Tech Blog Full Stack App : On my GitHub!

Developer

- This app is a CMS-style blog site similar to a Wordpress site, where developers can publish their blog posts and comment on other developers' posts as well.
- This app follows the MVC paradigm in its architectural structure, using Handlebars.js as the templating language instead of REACT and SQL w/ Sequelize as the ORM for its backend.

Get-Traded Full Stack App : On my GitHub!

Developer

- This was a collaboration project based on a REACT front end that matched home owners with relevant trades workers for whenever work is needed at a residence.
- I implemented the back-end of this project with a few front end designs. It was staged with MongoDB w/ Mongoose, JWT tokens, GraphQL and appolloServer.

DNA Sequence Alignment Algorithm : On my GitHub!

Developer

- This was a CLI project I did to practise using Needleman Wunsch Algorithm.
- A user enters two DNA sequences and the program will determine optimal alignment based on user input of match score mismatch score and gal penalty- Also utilizes traceback methods.

Professional Experience

Mini Giant Coders

10/2018 - 04/2022

Owner - Small Business 4 part-time employees

Toronto, Ontario

- Startup Business, myself and my colleague from university started teaching kids in high school how to code. We started teaching in C++ mainly, but now include basic full-stack web apps.
- Still teaching a roster of 25 kids and growing. 100% Ready to step down for a career opportunity.

Bermingham Foundations Solutions, Toronto

2/2012 -08/2014

Database Engineering Intern

Hamilton, Ontario

- Responsible for organizing and refining the online database for ongoing and completed construction projects.
- Mainly it was database information seeding however I also was part of the software application building process as it was done in house. Note: Bermingham bought by Soletanche Bachy.

TECHNICAL SKILLS

- Front End Proficiencies:
 - HTML/CSS
 - HTTPS
 - OAuth2
 - JavaScript
 - React / JSX / Redux
 - Angular
 - Vue
 - JQuery
 - TestDrivenDevelopment (TDD) / Jest
 - Bootstrap/MUI/Tailwind
 - Responsive Designs
- Back End Proficiencies:
 - REST / SOAP API's
 - .NET
 - Node.js
 - Express
 - SQL/Sequelize
 - MongoDB/Mongoose
 - AppolloSever
 - GraphQL
 - AWS
 - MERN Stack Development

Education

University of Toronto, Toronto
Full-Stack Software Development

Grad 04/2022

Carleton University, Ottawa
Bachelor's of Engineering - Electrical Engineering

Additional Activities / Skills / Community Service

- Hobby Projects
 - IOS – Swift Phone Apps
 - Designed 3 iPhone apps using Apple's SWIFT language; one was used in conjunction with my work teaching students how to program. Available to show if interested let me know!
 - Text2Braille - Phone Arduino Based Braille Refreshable Display
 - Created an android application in Java that forwards incoming text messages to a 3D printed device using a Bluetooth connection and an Arduino (microcomputer). The Arduino was programmed using C to interpret letters into Braille symbols which were then displayed on a handmade refreshable display. Click [here](#) to watch video.
- Spoken Languages:
 - English - Native
 - Spanish - Fluent
 - French – Intermediate
- Community Service
 - Habitat for Humanity **200+ Hours Served**
 - Helping to provide homes to the less fortunate. Being from and born in Mexico, I have seen too many live in terrible conditions, I have been fortunate enough in my life to live in Canada and have always had a roof over my head and a bed to sleep in, I wanted to give back. What an incredible charity Habitat for Humanity is and I am proud of every day of it.

SOFT SKILLS

- Great collaborator within an agile team and very comfortable with SCRUM and sprint rituals.
- Meetings translating into specific design phases and components to effectively accomplish daily goals.
- Walkthrough review of existing software to assess practicality and scalability of application, as well as optimization/tuning of functions to fit precisely what is necessary.
- Troubleshooting and refactoring with an emphasis towards design quality and modularization.

****REFERENCES AVAILABLE UPON REQUEST!**