

# Ernesto Sanchez

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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. During my studies in Electrical Eng. at Carleton U; C++, Java and Python were heavily used, I have implemented complex algorithms to solve complicated problems. 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

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### 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

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### 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

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

## Education

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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

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- Hobby Projects
  - IOS – Swift Phone Apps
    - Designed a few iPhone apps using Apple's SWIFT language; one was used in conjunction with my work teaching students how to program
    - Still are available if interested please contact me for links.
  - 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
    - 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.
    - 200+ Hours Served

## SOFT SKILLS

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- Highly reliable and a great team member. Comfortable with SCRUM procedure.
- Detail oriented and able to manage multiple projects

**\*\*REFERENCES AVAILABLE UPON REQUEST!**