

Profile

- Possesses strong programming skills and a logical mindset.
- Demonstrates advanced mathematical thinking and deep knowledge.
- Experienced in database technologies including Microsoft SQL Server and Oracle.
- Strong analytical skills with experience in data manipulation and analysis using Excel and Python.
- Expertise in probability theory and statistical inference.
- Currently pursuing a Diploma in Computer Programming and Analysis at Seneca Polytechnic.

Technical Skills

Web Development: NodeJS, CSS3, HTML5, EJS, Bootstrap, Tailwind CSS.

Database Management: Oracle SQL, MongoDB, PostgreSQL, Microsoft SQL Server, MongoDB Atlas.

Design and IDE tools: MS Office, MS Visual Studio, MS Visual Code.

Operating Systems: Linux/Unix, Windows.

Programming languages: Python, JavaScript (ES6+), C, C++.

Tools & Platforms: Git, GitHub, SendGrid, Visual Studio Code.

Education

Seneca Polytechnic (Toronto) - Advanced Diploma in Computer Programming and Analysis (Co-op)

May 2023 - Present

GPA (Cumulative): 3.9/4.0

University of Havana (Havana) - Bachelor of Arts in Mathematics

2017 – 2021

GPA: 4.38/5

School Projects

Meal Delivery Web Application

GitHub Repository: <https://github.com/cSuarez13/web322-csuarez-socorro.git>

Developed a full-stack meal delivery web application inspired by Goodfood, enabling user browsing, account management, shopping cart functionalities, and order processing with email confirmations, using a technical stack that includes Node.js, Express, EJS, MongoDB, Mongoose, bcrypt.js, SendGrid, and Cyclic.

Responsive Personal Website

Developed and hosted a responsive personal website on GitHub Pages, demonstrating web development skills with semantic HTML5, organized CSS and JavaScript, and a dynamic contact form.

Disaster Relief Inventory Management System (C++)

Designed and implemented a C++ application for disaster relief inventory management, utilizing class-based structures for item categorization, quantity tracking,

and logistics optimization, showcasing expertise in object-oriented programming and systematic project design.

Veterinary Clinic Appointment System (C)

Developed a reliable and maintainable C application for managing pet contact information and appointment scheduling, optimizing logic and readability through helper functions.

Experience

Research Assistant, University of Havana - Cuba 2020-2022

- Developed a sophisticated stochastic simulation model in Python for analyzing COVID-19 outbreaks using the SIDARTHE compartment model, demonstrating advanced skills in stochastic modeling, programming, and software development.
- Utilized statistical methods and Python libraries to analyze, interpret, and visualize simulation results, ensuring validity and reliability of research findings while showcasing expertise in epidemiology and disease modeling.

Teaching Assistant, University of Havana - Cuba 2020-2022

- Instructed diverse mathematics courses, effectively simplifying complex concepts and adapting teaching methods to accommodate various learning styles, while managing assignments and collaborating in a team-oriented educational environment.