

# Nerushan Naguleswaran

ENGINEER · STRIVING PROGRAMMER · ENTHUSIASTIC LEARNER

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## About

Ability to work in groups and to finish a task on time, using communication, problem-solving skills project management, and technical skills experience gained from work and engineering courses.

## Skills

<b>Front-End Development</b>	HTML, CSS, Javascript, React, Bootstrap
<b>Back-End Development</b>	Node.js, Python
<b>Database Development</b>	PL/SQL, MongoDB
<b>Non Programming Skills</b>	Microsoft Office (Excel, Word, PowerPoint)
<b>Simulation and Numerical Tool</b>	MATLAB, Simulink, Spice, Psim
<b>Other Languages and Tools</b>	Github, Postman, C, C++, Java, Bash, Verilog, R-Studio, Unix/Linux Shell

## Education

### Bachelor of Engineering (BEng) in Electrical Engineering

Toronto, Canada

LASSONDE SCHOOL OF ENGINEERING, YORK UNIVERSITY

June 2021

## Experience

### Sr. Technical Student

Toronto, Canada

TORONTO HYDRO - METER DATA MANAGEMENT

January 2019 - Aug 2019

- Managed and lead a team of 4 people on a major meter conversion project ensuring team cohesion and fulfilment of deadlines
- Conducted meter data maintenance in industry standard software, including ODS and MV90
- Gathered meter information using PL/SQL from Oracle servers and used Excel macros to analyze and compare complex data sets
- Organized and validated manufacturer datasheet specifications using SAP and communicated essential information with supervisor and senior technicians

### Back-end developer

Freelance

UBYTES MEDIA

January 2019 - January 2020

- Created and managed MySQL databases
- Facilitated database transactions ensuring data accuracy and integrity is maintained accounting for data types and encodings
- Ensured database efficiency and compatibility within full stack development environment

## Projects

### Team Lead

Toronto, Canada

ENGINEERING CAPSTONE (ENG4000)

Sept 2020 - April 2021

- Proposed by Toronto Hydro to explore the viability of Electrical Vehicle chargers and Battery Energy Storage System for Condos in Toronto
- Developed an extensive Python simulation for the Battery Energy System (Bess), Multi-Unit Residential Building (MURB), Ev chargers and car flow
- Using python developed the EV chargers and car flow simulations for both (real time and historical time)
- Developed billing functionality for the MURB using Node.js and an energy management system platform to show the entire energy system in one environment
- Organized meetings in order to communicate project progress with Toronto Hydro and created progress/other reports for course advisors

### Front-End Developer

Toronto, Canada

DIGIDEX

August 2021

- Self motivated project influenced by Pokemon's PokeDex for Digimon using a Digimon API.
- Objective is to learn and improve Front-End skills Using Technology such as React, CSS and Bootstrap for the project
- Self taught methodologies from documentation and other resources to use React and Bootstrap to create a clean interface