# Nerushan **Naguleswaran**

ENGINEER · STRIVING PROGRAMMER · ENTHUSIASTIC LEARNER

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## **Ab**out

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.

## **Sk**ills

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

## **Edu**cation

**Bachelor of Engineering (BEng) in Electrical Engineering**                    *Toronto, Canada*

LASSONDE SCHOOL OF ENGINEERING, YORK UNIVERSITY                    *June 2021*

## **Exp**erience

**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

## **Pro**jects

**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
- Using Technology such as React, CSS and Bootstrap for the project
- Self taught methodologies used in React and Bootstrap to create a clean interface