

# Orest Nowosad

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## EDUCATION

### MCMASTER UNIVERSITY

#### B.ENG. IN COMPUTER ENGINEERING

June 2018 | Hamilton, ON, Canada

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Relevant Coursework:

Principles of Programming

Data Structures, Algorithms & Discrete

Mathematics

Software Development

Computer Architecture

Operating Systems

Embedded Systems

Computer Communication Systems

Advanced Internet Communications

## SKILLS

### TECHNICAL SKILLS

Proficient with:

Python • JavaScript • C • Git

Flask • Unix • Agile • HTML5

CSS3

Familiar with:

Java • PostgreSQL • Django

SCSS/SASS • AWS • React

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### SOFT SKILLS

Multilingual Communication (English,

Polish, Ukrainian) • Leadership

Self-Directed Learning

## EXPERIENCE

### EXPLORE AGENCY | Co-FOUNDER & WEB DEVELOPER

July 2019 - Present | Toronto, ON, Canada

- Managed and maintained web infrastructures of clientele.
- Boosted online presence of clientele through the development and SEO of business websites, resulting in an increase in clientele customer bases.
- Optimized month-to-month web expenses for clientele while maintaining performance and content management capabilities of business websites.

### MCMASTER SOLAR CAR | ADAPTIVE CRUISE CONTROL LEAD

June 2017 - October 2017 | Hamilton, ON, Canada

- Led a team of four students to design and implement the adaptive cruise control system of the McMaster solar car.
- Designed a feedback system that displayed the recommended speed to the driver, every minute, based on current battery charge, solar cell rate of charge, and distance to target.

### MCMASTER OUTREACH | MENTOR

April 2017 - August 2017 | Hamilton, ON, Canada

- Partnered with the Google igniteCS program to provide educational outreach to over 200 students within the Greater Hamilton Area.
- Garnered interest in technology among middle school students through teaching and mentorship of computer science and engineering through visual based projects.
- Helped foster an inclusive environment for students to learn and grow in.

## PROJECTS

### SPARSE MATRIX MULTIPLIER

March 2018

- Built a dual CPU sparse matrix multiplier with C, Verilog, and the Altera DE2 FPGA board.
- Implemented message passing between the two CPUs using a shared memory buffer to balance the workload of the computation due to limited memory.

### GROUP CHATTING NETWORK APPLICATION

March 2018

- Built a terminal-based group chatting network application with Python.
- Implemented a client-server architecture with the Berkeley Sockets API to maintain concurrent connections and communicate over a broadband wireless router.