

# JENNIFER LU

1B Software Engineering | jenniferlugm@gmail.com | 647-636-0587 | <https://github.com/jennifer-lu>

## SKILLS

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**Languages** Java, C, C++, Python, HTML, CSS, JavaScript, LaTeX  
**Technologies** Git, Node, React, Axios, NumPy, Keras, Tensorflow, Adobe Photoshop, Procreate  
**Principles** Object Oriented Programming, Data Structures and Algorithms

## PROJECTS

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### LaTeX Scanner

*Converts handwritten documents into LaTeX using a neural network-based OCR*

- Website frontend was coded in React, HTML, and CSS
  - Bounding box drawing consists of a character detection program that completes basic image pre-processing with OpenCV and PyTesseract
  - Sends user an email using the smtplib library in python and attaches files using the email package
- Keras • Tensorflow • React • NumPy • PyTesseract • Axios • Node • OpenCV • Bootstrap • Matplotlib

### Firefox Extension

*Dynamic theme for the Mozilla Firefox web browser*

- Over 1000 daily users and 8000 total downloads for an animated browser theme that changes based on the time of day
- JavaScript • JSON • APNG

### Kinematic Motion Simulator

*Simulates an object in linear motion and with real-time graphs and equations of motion*

- Real-time animations of the object, graphs, and equations of motion implemented with Processing
- Java • Processing

## WORK EXPERIENCE

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### Aquatic Program Assistant

Jan 2019 - Mar 2020

### City of Toronto

Toronto, ON

- Assisted instructors with teaching swimming lessons and evaluating students
- Prepared and cleaned the pool deck, including setting up and taking down equipment

## EDUCATION

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### University of Waterloo

Sep 2020 - Present

- Bachelor of Software Engineering
- President's Scholarship of Distinction, SHAD Valley Alumni Entrance Scholarship

## INTERESTS

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Graphic Design • Video Editing • Reading • Drawing • Game Development • Swimming