Alexander De Laurentiis

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Programming

	Experience
Java	●●●●◐
Python	●●●●◐
C++	●●●●○
Lisp	●◐○○○
Prolog	●●●●◐
SQL	●●●●◐
Ruby	●○○○○
JavaScript	●●●●○
Bash\Shell	●●●○○
PHP	●●○○○
Haskell	●○○○○

Frameworks/Libraries

Python-Flask
Sklearn
JavaServlett
opencv
swiweb
NLTK
Node
OpenGL

Markup

HTML
CSS
Bootstrap
Markdown
LaTeX

Skills

Git
Command Line
Linux
Emacs
Windows

Education

2017-2022 │ Concordia University │ BCompSc │ Montreal, QC

Projects

Search Engine

python — NLTK — Flask

- From scratch Web crawler from python requests and urlparse libs
- From scratch text processor
- SPIMI block based indexer scalable for any size input of streamed web pages
- Query ranking and processing with BM25 algorithm
- Flask Server hosts simple Frontend as standalone
- Command line Queryable for easy integration into other projects

Image Denoiser

python

- Thouroughly removes method noise from a greyscale image
- Uses Non-Local Means for image denoising
- My own implementation of the original algorithm from research paper where the concept was introduced

Text Editor Edit Save System

Tau-Prolog — Js — React

- Action listener to check text body state to know when to save edits
- Uses Tau Prolog to find set difference of text represented as a character list
- Saves list difference as string with position/time of when and where it was taken from the text
- Set difference algorithm uses recursion and discrete mathmatics

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