

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
Sklern
JavaServlett
opencv
swiweb
NLTK
Node

Markup

HTML
CSS
Bootstrap
Markdown
L^AT_EX

Skills

Git
Command Line
Linux
Emacs
Windows

Education

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

Projects

Search Engine

python — NLTK — Flask

- Self implemented 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 integration into other projects

Image Denoiser

python

- Thouroughly removes method noise
- Uses Non-Local Means for image denoising
- Self implementation of the original algorithm

Text Editor Edit Save System

Tau-Prolog — Js — React

- Text Editor written in React/JS
- Action listener to check text body state to know when to save edits
- Uses Tau Prolog to find set difference of character list of the text body
- Saves list difference as string with position/time of when and where it was taken from the text