

# Vaasudevan Srinivasan

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[vaasudevans.github.io](https://vaasudevans.github.io)

## Profile Summary

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Geomatics Graduate student in University of New Brunswick. Relevant work experience includes development using open source GIS tools & Python, GIS analysis and building Geodatabases. Self-driven, both process and result oriented with good communication and analytical skills. Optimistic attitude, motivated, constant interest in learning new things will make me an effective addition to any team.

## Education

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**Master of Engineering in Geodesy and Geomatics**, University of New Brunswick, Fredericton *Sep 2018 - present*

- 4.2 / 4.3 GPA with expected graduation in Dec 2019

**Bachelor of Engineering in GeoInformatics**, Anna University, Chennai, India *2014 – 2018*

- Graduated in May 2018 with 8.07 GPA (on a 10 scale)

## Employment Experience

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**Summer Student (GIS)** in NB Power *May 2019 – Aug 2019*

- Co-operative Work Education term dealing New Brunswick Road Network

**Digital Technician** for Prof. Maria Papaioannou, Classics and Ancient History, UNB *Sep 2018 – Mar 2019*

- Created 3D models of the Ancient Abdera site, Greece using the existing site layout and Terrestrial Laser Scanning data and LAS datasets
- Independently developed a website with the information about the project and also the reconstructed models exported from Sweet Home 3D. Link: [abdera-thrace.github.io](https://abdera-thrace.github.io)

**Student Intern** – UNB Sodexo services *Sep 2018 – present*

- Coordinating with a team for Catering events and showing strong communication and trained to work in a fast-paced environment; adhere to all food and health regulations and process financial transactions
- Demonstrating responsible, punctual and work-ethics during the whole time

**GIS Developer (student)** – kCube Consultancy Services, Chennai, India *Jul 2017 – Jan 2018*

- Analyzed and developed risk raster models using GRASS GIS and python with the accidents data for the client
- Showed communication and organizational skills in weekly meetings and daily reports to the project manager
- Showcased the application skills by implementing the concepts in both spatial and programming domain

**Indian Academy of Sciences Summer Research Fellow** – Tezpur University, Assam-India *May, June 2017*

- Developed a user-friendly software for batch processing and codaQback computation of Seismic waves using python (tkinter, matplotlib and scipy)
- Implemented the same software as a web app using python (django, bokeh and scipy) – Dec 2018

## Coursework / Project work

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### GIS and Image Processing

- Fredericton: KnowYourRoute** using ESRI JS API 3.28 ([Link](#)) April 2019
- Display risk level and statistics of accidents for generated routes from user selected points on map
- Support Vector Machine** implementation for Satellite Imagery April 2019
- Site Assessment for Renewable Energy in New Brunswick** using ArcGIS, Leaflet Nov 2019
- Made an assessment on possible sites for solar, geothermal and tidal power stations in NB
- WebGIS Portal for Ponneri Taluk (India)** using Django, Leaflet April 2018
- Created a web portal with the surveyed thematic information and integrated them with GIS

### Natural Language Processing (using Python builtin modules)

Sep to Dec 2018

- **Information retrieval based Chatbot**
- **Sentiment Analysis, Language Models, POS Tagger**

Python modules • cowsay • periodic elements • flames • thirukkural

Web applications are linked at [vaasus.pythonanywhere.com](http://vaasus.pythonanywhere.com) | Github link: <https://github.com/VaasuDevanS>

## Relevant Skills

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**GIS** – GRASS GIS, ArcGIS, PostGIS, Leaflet, ESRI JS API

**Programming Languages** – Python, C, C++, Javascript, SQL, R, Bash

**Python Frameworks** – DataScience: Numpy, Pandas, Scipy, Matplotlib | Machine-Learning: Scikit-learn, Tensorflow  
Web: Django, Requests | GUI: Tkinter | GIS: Arcpy, GRASS

**Operating systems** – Ubuntu-Linux (can also live with only terminal), Windows

**Development Environments** – Vim, Jupyter-notebook, Atom

**Version Control** – git

**Softwares** – Microsoft package, Libreoffice, GIMP

## Volunteering / Managerial Roles

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- **Senior Executive Member** in ‘Students Quality Council’ in Anna University 2016 to 2018
- **Fund Raiser** for ‘Siruthuligal Charity Club’ in Anna University 2017 to 2018
- **Event Organizer** during Inter-college symposium 2018

## Personal Interests and Hobbies

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- Chess fanatic ([chess.com](http://chess.com) Rating: 1233) • Avid reader of Kalki • Solving different Rubik’s cubes