Vaasudevan Srinivasan

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Profile Summary

Geodesy and Geomatics Graduate student in University of New Brunswick seeking a 4 month **GeoSpatial Development Co-op work term**. Relevant work experience includes development using open source GIS tools and python packages, GIS analysis and also building databases. Self-driven, both process and result oriented with good communication and analytical skills. Optimistic attitude, interpersonal and development skills will make me an effective addition to any team.

Education

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

• 4.3 / 4.3 GPA with expected graduation in May 2020

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

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

• Creating 3D models of the Ancient Abdera site, Greece using the existing site layout and Terrestrial Laser Scanning data

• Independently developing a website with the information about the project and also the reconstructed models (aerial-view and virtual-visit) exported from the newly learning software - Sweet Home 3D

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 – 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 a client

• Communication and organizational skills shown in weekly meetings and daily reports to the project manager

• Displayed quick learning skills by understanding the working of advanced GIS software (GRASS)

• Showcased the application skills by implementing the concepts in both spatial and programming domain

Indian Academy of Science Summer Research Fellow – Tezpur University, Assam *May, June 2017*

• Analyzed and understood the proposed codaQback computation of seismic waves in order to develop the software

• 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

GIS and Image Processing

Change Detection in Satellite Images using Arcpy and GRASS GIS (ongoing) — Feb 2019 to present

- Doing a research on finding the best method for change detection with pre and post disaster images

Site Assessment for Renewable Energy in New Brunswick using ArcGIS, Leaflet — Nov 2019

- Determining optimal 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

Drought Analysis by estimation of TVDI using GRASS GIS — Mar 2018

- Assisted a Researcher with automation scripts for drought analysis

Predicting Occupancy using Support Vector Classification using sklearn — Jan 2019

- Predicting the electrical station occupancy using the past occupant data

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

Web applications are linked at vaasus.pythonanywhere.com | Github link: https://github.com/VaasuDevanS

Relevant Skills

GIS – GRASS GIS, ArcGIS, PostGIS, Leaflet

Programming Languages – Python, C, C++, JS, 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

Volunteering / Managerial Roles

- **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 synposium — 2018

Personal Interests and Hobbies

• Chess fanatic • Avid reader of Kalki • Solving different Rubik's cubes