

# Vaasudevan Srinivasan

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## EDUCATION

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- **University of New Brunswick** Fredericton, NB  
*Master of Engineering in Geodesy and Geomatics; CGPA: 4.1 / 4.3* Sep 2018 – Dec 2019
- **College of Engineering Guindy, Anna University** Chennai, India  
*Bachelor of Engineering in GeoInformatics; CGPA: 8.07 / 10.0* Aug 2014 – Jul 2018

## DEVELOPMENT SKILLS

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**GIS:** ArcGIS (Desktop, Pro, Online, JS API, Arcpy), GRASS GIS, QGIS, PostGIS, Leaflet, Geomatica

**Languages:** Python, SQL, JavaScript, Bash, R, C, C++, HTML


**Technologies and Frameworks:** Scikit-Learn, Keras, Git, Sphinx, Django, L<sup>A</sup>T<sub>E</sub>X

**Operating systems:** Debian based Linux (*also comfortable just working on terminal*), Windows

**Softwares and IDEs:** Atom, Vim, Microsoft office package, GIMP

## EXPERIENCE

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- **Scene Sharp** Fredericton, NB  
*Remote Sensing Analyst and Developer* Jan 2020 – present
  - Performing research and developing Python scripts to automate various Remote sensing tasks
  - Implementing various Machine Learning models and Image processing using satellite data
  - Gaining experience with managing multiple tasks and working on multiple projects simultaneously
  - Develop, maintain and update GIS projects based on the purpose and needs using ArcGIS Pro
- **Énergie NB Power** Fredericton, NB  
*GIS CoOp Student* May – Aug 2019
  - Generated high quality Network dataset by integrating New Brunswick road layers from various sources
  - Developed ArcPy workflow to generate attributes based on spatial relations
  - Technologies used: ArcGIS Desktop 10.1, Arcpy, Microsoft office package
- **University of New Brunswick** Fredericton, NB
  - *Teaching Assistant* (GGE3342: Remote Sensing; Instructor: [Dr. Yun Zhang](#)) Sep – Dec 2019
    - \* Handled and evaluated lab materials and assignments (software: Geomatica'18)
  - *Digital Technician* (Supervisor: [Maria Papaioannou](#)) Sep 2018 – Mar 2019
    - \* Created interactive 3D models using the existing site layout, Terrestrial-Laser-Scanning-data, LAS datasets and developed the website  [View site](#)
    - \* Technologies used: Cloud Compare, Sweet Home 3D, LAsTools
- **kCube Consultancy Services** Chennai, India  
*Open Source GIS Analyst and Developer* Jul 2017 – Feb 2018
  - Generated and Analyzed Risk raster models using the spatio-temporal accidents data
  - Developed python and shell scripts for batch processing on the AWS cloud machine
  - Technologies used: Python, GRASS, QGIS, AWS (EC2), GNU-coreutils
- **Tezpur University (Indian Academy of Sciences)** Tezpur, India  
*Summer Research Fellow* May, Jun 2017
  - Developed a user-friendly web app for batch processing and codaQback computation of Seismic waveforms using django, bokeh and scipy  [View site](#)

## TECHNICAL COURSES AND CERTIFICATIONS

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Creating Python Scripts for ArcGIS ( <i>Instructor-Led</i> )	Oct 23-25, 2019
ArcGIS Enterprise: Administration Workflows ( <i>Instructor-Led</i> )	Sep 17-19, 2019
Beauceron Security's Cyber-Awareness	July 2019
Implant Training about Web Technology languages	Nov 2015

## ACHIEVEMENTS

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Won **ESRI Canada** GIS scholarship for the year 2019 [👁 View Profile](#)  
Won second place in Anna University Sports day 2015 - 2016 for chess

## PROJECTS AND COURSE WORK

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<b>Land Use Land Cover classification</b> using Keras - ResNet50 <a href="#">👁</a>	Fall'19
<b>indoorGIS</b> web app for UNB-HeadHall using Django <a href="#">👁</a> <a href="#">🔗</a> <a href="#">📄</a>	Summer'19
<b>Cholera Spatial Epidemiology</b> using Leaflet (forked project) <a href="#">👁</a> <a href="#">🔗</a>	Jul 2019
<b>Fredericton: KnowYourRoute</b> showing accidents data using ESRI JS API <a href="#">👁</a> <a href="#">🔗</a>	Apr 2019
<b>Support Vector Machine</b> implementation for Satellite Imagery <a href="#">📄</a>	Apr 2019
<b>Site Assessment for Renewable Energy in New Brunswick</b> using ArcGIS, Leaflet <a href="#">👁</a> <a href="#">🔗</a>	Nov 2018
<b>Natural Language Processing</b> - Chatbot, Language Models, POS Tagger <a href="#">🔗</a>	Fall'18
<b>Village Information System</b> using Django and Leaflet <a href="#">👁</a>	Apr 2018

**Map Products** created so far [👁 View page](#)

**Author of python modules:** cowsay, periodiclements, thirukkural, flames [🔗 PyPi](#)

## ATTENDED WORKSHOPS

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'Information Access and Analysis through the art of searching' at Tezpur University	2017
'Revolutionizing Mapping with Open Source' at Anna University	2016
INSPIRE Internship Summer camp sponsored by Department of Science and Technology, Delhi	2012

## VOLUNTEERING ACTIVITIES

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<b>Student Executive</b> at "Indian Student Association of UNB"	2019
<b>Senior Executive Member</b> at "Students Quality Council" in Anna University	2016 to 2018
<b>Fund Raiser</b> for "Siruthuligal Charity Club" in Anna University	2017 to 2018
<b>Codify Event Organizer</b> during GeoHorizon (Inter-college Symposium)	2017
<b>Logo designer</b> of AU-TVS (Centre for Quality Management) <a href="#">👁 View Logo</a>	

## ABOUT ME

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Chess fanatic ([Lichess](#)), Avid reader of [Kalki](#), Rubik's cubes solver  
Using - python and GIS softwares & products for **>4years**; Linux and Open Source tools **>3years**  
Preparing for ESRI ArcGIS Desktop Associate Certification