VERA GREEN

415 7 St. NE, Calgary
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1 (403) 836-8324 (Cell)
ca.linkedin.com/in/veegreen

PROFESSIONAL PROFILE

I am an independent contractor with a broad range of direct GIS and leadership experience across several industries, including environmental monitoring, oil & gas, forestry, and emergency management. My specialties include project management, strategic planning, full stack system architecture design, deployment and administration in support of web based enterprise GIS systems, web interface and dashboard development, custom tool development, GIS modeling and automation, data re-structuring and data migration within relational databases.

My programming experience combined with my extensive knowledge of GIS, remote sensing, analytical methods, spatial data, and spatially enabled relational databases have enabled me to successfully create custom GIS solutions for past clients. Regardless of where your organization is today, my skills can assist you in empowering your future.

I specialize in building open source enterprise GIS systems

Pertaining more broadly to full stack GIS system development and management, I have focused on open source tools such as PostgreSQL, PostGIS, pgRouting, GeoServer, Leaflet and NodeJS. My enthusiasm regarding open source technologies is driving my current career aspirations in the areas of web based GIS systems and data sciences. Often GIS data must be combined with effective data discovery tools such as automated reports or dashboards to maximize value. During my career I have delved not only into GIS analysis but also areas of data sciences including statistics, predictive analytics, and data mining.

Whether your organization is executing an existing plan or developing a new one, my background can assist you in achieving your strategic objectives. My deliverables include specialized solutions that will provide concrete support to your business. I would welcome the opportunity to join your team on a short or long term basis.

EDUCATION

Bachelors of Science in Geography University of Northern British Columbia	2001 - 2004
Post-Bachelor Certificate in GIS Penn State University	2012 - 2013
Masters in GIS Penn State University	2013 - 2017

Workshops and Masters Level Courses

GIS Database Development	2012
GIS Programming and Customization	2012
Geodesign	2013
Geospatial System Analysis and Design	2013
GIS Application Development	2014
Geospatial Technology Project Management	2015
Cloud and Server GIS	2015

Awards

Premier's Award for Excellence (Team Project)	2011

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RECENT WORK EXPERIENCE

Director (GIS & Development) *VGeo*	2018 - Current
Development Team Lead (Environmental Consulting) *The Lorrnel Group*	2018 - Current
GIS Analyst/Specialist (Upstream Oil and Gas) *Cenovus Energy*	2016 – 2018
GIS Specialist (Pipeline Engineering Sector) *Connect Engineering*	2016 – 2019
GIS Analyst/GIS Lead Analyst (Pipeline Engineering Sector) *Universal Pegasus International*	2014 – 2016
Geomatics Analyst (Fire Sciences – Emergency Response) *Government of the Northwest Territories, Forest Management Division*	2008 - 2013

TECHNICAL SKILLS

GIS Software
- PostGreSQL/PostGIS/pgRouting
- Geoserver and Mapserver
- Q-GIS
- Esri ArcGIS, ArcGIS for Server, SDE

General
- Windows OS
- Linux OS (Ubuntu, CentOS)
- R (R Studio, R Server, Shiny) TIBCO SpotFire, PowerBI (but I do not prefer this platform)
- Git/gitHub/gitLab

Development Systems/Frameworks
- Digital Ocean
- NodeJS
- Leaflet
- Next Cloud/ Open Project *and many more*

Programming/Scripting Languages
- HTML5, CSS, JavaScript
- Python
- My SQL/PostgreSQL
- PHP
- VB/VBA

Project Highlights
- PLAN Map - Enterprise GIS and Web system deployment (ask me for details)
- Wetland management web dashboard development (full stack support)
- Workflow automation through SQL, PHP, Python and Bash Shell scripts
- Data management in SQL/PostgreSQL databases including writing of views, triggers, functions
- Database schema development. I translated the PODS schema from ESRI to PostGIS
- Data analytics and predictive statistical modeling workflow and automated reporting development using SpotFire, R, and PowerBI including python customization where necessary
- Creation of complex GIS models for predictive analytics, cost modeling and feature extraction
- Creation of custom tools/plugins for ESRI or Q GIS written in Python including complex validation

REFERENCES

I am pleased to offer my references as requested. You will find I have an excellent reputation, work ethic and transparent billable rate. My LinkedIn profile offers further details and recommendations from past employers, clients and colleagues.