

Dear Hiring Manager,

I'm writing to apply for the role of Web Developer. I have more than ten years experience writing and testing software, and my professional skills are well suited to help your team produce high quality software solutions.

As a Software Developer for [redacted] I was valued for my technical expertise in optimizing and modernizing their data processing and visualizing software applications. With my efforts to improve resource utilization I brought dramatic increases in performance and reductions in processing times. In some cases I was able to reduce high volume data processing times from several hours to several minutes. I also spearheaded what became known as Info Sessions where developers presented new techniques to each other allowing us to share our knowledge and improve team performance.

As a Software Developer for [redacted] I was valued for being able to quickly turn requirements into results. Using my knowledge of raster and vector data processing I was able to rapidly implement algorithms to generate classification reports and data products focusing on cloud and vegetation coverage. I also implemented change detection algorithms designed to identify modifications to residential structures, as well as damage caused by natural events.

NB Power's IT team would benefit from my skills in the following areas:

- Modern tools such as Typescript, NodeJS, React, Flask
- Automation of building, testing, and deploying web-based software products
- CI/CD pipeline configuration and management
- Cloud computing with AWS
- Problem solving with teamwork and communication skills

I have been utilizing my web development skills both professionally, and as a hobbyist, for many years. I am confident that I have the skills and aptitude to fulfill the role of web developer. Thank you for your time, and I look forward to hearing from you.

Sincerely,

Patrick Sagan

Personal Data

Name: **Patrick Sagan**
Address: [redacted]
Phone: [redacted]
E-mail: [redacted]

Employment History

2019 – 2020 Software Developer – [redacted]

Implemented feature detection algorithms for raster datasets based on newly published academic papers.

Designed automated cloud detection algorithms for Earth observation datasets.

Updated applications to support inputs of raster and vector data files with universal coordinate reference system support.

Created an in-house testing suite for custom GDAL-based data algorithms.

Hosted weekly presentations to report progress, design decisions, and processing results.

2007 – 2018 Software Developer – [redacted]

Participated in daily team meetings to convey Agile scrum updates.

Created data visualization tools for 2D/3D datasets.

Implemented new format readers for hydrographic transceiver hardware output.

Integrated SQL-based relational and spatial databases into C++ applications.

Improved product performance with multi-threading and distributed processing.

Implemented unit tests and automated functional tests for all code.

Integrated high precision geometry libraries into existing algorithms.

Improved team productivity with custom Python scripts and C++ utilities.

Adhered to quality control standards and Agile development practices.

Hosted information-sharing meetings with visual presentations for development teams.

Participated in planning meetings providing input on complexity, task breakdown, and time estimates.

Education

2005 – 2007 Associates Degree, [redacted]

2001 – 2005 Diploma, [redacted]

Frontend Skills

NodeJS, NextJS, NextAuth

Javascript, Typescript, HTML, CSS

MaterialUI, Bootstrap, Shoelace

Secure storage of API tokens and other secret data

Markdown, reStructured Text, XML, JSON, YAML

Backend Skills

Python, C, C++, C#

Flask, SQLAlchemy, MongoDB, Jinja Templating

Git, Github, Github Actions

Environment orchestration with Tox

Authentication strategies with JSON Web Tokens, OAuth, Session-based

Secure Rest APIs, Cross-Origin Resource Sharing

Containerization with Docker

Multithreaded Development

Amazon Web Services

Technical Skills

Software Development Life Cycle (SDLC)

Continuous Integration and Continuous Delivery (CI/CD)

Agile Development (Scrum, Kanban)

Automated Software Testing

Technical Writing and Documentation

Code Reviewing

Microsoft Visual Studio and VSCode

GIS Applications

Earth Observation (LANDSAT)

Vector, Raster, GDAL data processing

Databases and Object Relational Mapping (ORM)

Qt User Interface

Personal Traits

Always interested in learning new technologies and learning new best practices.

Problem-solving mindset employing critical thinking and active listening.

Professional and constructive attitude towards others at all times.

Excellent teamwork and communication skills.

Punctual and reliable.

Comfortable making presentations to others.

Able to work remotely and in the office.

Always online!

References

[redacted]

[redacted]