Sean Christopher Doyle
10-2044 Bluefields Drive, Burlington, ON. L7P 1K1
Cell Phone – (226) 820-2099
sean.chris.doyle@gmail.com

Executive Summary:

I am a results-oriented software engineer with a background in Business Systems development and Geographic Information Systems and a passion for continuous learning.

Experienced in Front-End Web Development using JavaScript (including React and Vue) and building REST API's using Flask RESTful, ExpressJS and Object-relational mapping. Proficient using Relational Database Management Systems (SQL Server & PostgreSQL) and in data manipulation using ETL Tools such as SQL Server Integration Services.

With the ability to be a self-starter and build projects from the ground up, I also possess excellent interpersonal and communication skills. Collaborative by nature, I am able to take the needs and abilities of others into consideration while continuing to adhere to project deadlines.

EDUCATION

Centre of Geographic Sciences – Lawrencetown, Nova Scotia **Sep 2017 – Apr 2019**
Diploma – Geographic Sciences

University of Guelph – Guelph, Ontario **Sep 2013 – Apr 2016**
Bachelor of Arts – Geography Concentration

EXPERIENCE

Software Developer – Full-time **Jul 2019 – Present**
International Financial Data Services / SS&C

- Developed a time tracking system using React and ExpressJS to replace existing licenced software
- Developed an On Call tracking module with approval workflows for days booked to integrate with previously developed time tracking system
- Led a project to develop a site for internal systems including new hire onboarding and Client management using React and ExpressJS
- Supervised a co-op student, managing sprint planning across multiple projects
- Developed REST API's using Spring Boot and Spring Data JPA as part of a more modern and scalable TA Services Infrastructure
- Configured Apache NiFi to ingest multiple file types and output to an Apache Kafka Consumer

- Developed and maintained C# and JavaScript SharePoint solutions based on user/client requirements
- Participated in bi-weekly agile sprints tracking progress using JIRA

IT ADMINISTRATOR AND SUPPORT – Full-time **Jan 2017 – Mar 2017**
Pinnacle IP Solutions

- Assisted with organization of product and installation coordination
- Tasked with the creation of documentation to be presented to franchisees
- Managed an inventory spreadsheet to allow for efficient tracking of where inventory was used and what was in stock.

TURF STAFF – Full-time (summer)
Mill Run Golf Course **Jun 2016 – Jun 2019**

- Successfully completed time-sensitive duties requiring a high attention to detail
- Daily interaction with coworkers as well as management
- Tasked with projects given minimal supervision

SKILLS

Languages:	**Database:**
○ JavaScript	○ Microsoft SQL Server
○ Java	○ PostgreSQL
○ C#	○ PostGIS
○ Python	**GIS:**
Web Development:	○ ArcGIS Desktop
○ HTML	○ ArcGIS Pro
○ CSS	○ QGIS
○ React	**GIS - Web Development Libraries:**
○ Vue	○ Leaflet
○ Express	○ OpenLayers
○ Flask-RESTful	○ Mapbox
○ Jest	
Object-relational Mapping:	
○ Django	
○ SQLAlchemy	

OTHER PROJECTS

Forest Fragmentation Metrics Script

With guidance from the faculty at the Centre of Geographic Sciences, I created a Python script tool for ArcGIS Pro to measure the validity of perceived widespread forest clear cutting in western Nova Scotia. The tool creates a file containing forestry metrics.

- Used Python to create an ArcGIS Pro script tool to output a user defined CSV file containing forest fragmentation metrics
- Utilized multiple Python packages such as ArcPy, NumPy, Pandas and PyShp to output created shapefiles in GeoJSON format
- Users enter the locations of an input shapefile, scratch folder location, and output file name and folder location
- Input data used was sourced from the Department of Lands and Forestry Nova Scotia and Open Data Nova Scotia

Annapolis Valley Trails Coalition Data Migration

The objective of this project was to create a central database to manage trail data on behalf of the Annapolis Valley Trails Coalition. The Coalition manages a network of trails covering Grand Pre to Annapolis Royal, Nova Scotia. The prior system for managing spatial and non-spatial trail data consisted of a combination of CSV files and paper inspection forms. To create a system that is both scalable and more robust than the current system, a PostgreSQL database was created. Through consultation with the client, a database schema was created and existing CSV files were imported into the database wherever possible.

- Client-based school project working in a team of three
- Migrated trail, bridge, culvert and signage information from paper / CSV format to PostgreSQL database format
- Geographic information added to database tables using existing coordinate fields and PostGIS SQL commands