

Sean Christopher Doyle
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SKILLS

Languages: Python, SQL, HTML, Java, JavaScript

Tools: Atom, IntelliJ IDEA, PostgreSQL 9.6, SQLite Studio, JDBC, JavaFX, NodeJS, React, Express.js

PROJECTS

OpenLayers Web Map

- Created a Web Map of Nova Scotia roads, counties and points of interest using the OpenLayers JavaScript API
- Layer toggle functions implemented through plain JavaScript
- Data supplied by faculty at the Centre of Geographic Sciences

Forest Fragmentation Metrics Script

- 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
- Data used sourced from the Department of Lands and Forestry Nova Scotia and Open Data Nova Scotia

Database GUI

- Used Java JDK 11 and JavaFX 11 to create a Graphical User Interface allowing for querying of data without SQL knowledge
- Integrated SQLite database using open source JDBC driver
- Plans include export of data to plain text, CSV or JSON formats
- SQLite database used throughout project acquired from www.kaggle.com consisting of soccer match information derived from <http://football-data.mx-api.enetscores.com/>, <http://www.football-data.co.uk/> and <http://sofifa.com/>

Toronto Maple Leafs Dashboard

- Acquired player table data from the Sportsnet Toronto Maple Leafs site using Axios and Cheerio packages
- Manipulated JSON output to display in desired format
- Creating a React JS dashboard to display player trends

Annapolis Valley Trails Coalition Relational Database Migration

- Client-based term project working as 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

EDUCATION

Centre of Geographic Sciences – Lawrencetown, Nova Scotia

Sept 2017 – Present

Diploma – Geographic Sciences

- Relevant courses: Geoprocessing and Problem Solving, Database Systems, Enterprise GIS

University of Guelph – Guelph, Ontario

Sept 2013 – Apr 2016

Bachelor of Arts – Geography Concentration

EMPLOYMENT HISTORY

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

Mill Run Golf Course

**June 2016 – Oct 2016 /
Mar 2017 - Aug 2018**

- 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

TEAM MEMBER – Part-time

Tim Hortons

Oct 2012 – Dec 2015

- Performed a variety of tasks on a day-to-day basis
- Tasked with performing duties in a timely manner
- Consistent interaction with coworkers and customers

OTHER EXPERIENCES

- Project Data Collection
 - Assisted in planning data collection for first year class in association with local high school
 - Compiled all collected data into one file for distribution to classmates for project completion
- Work Term Project
 - Work with Centre of Geographic Sciences faculty to determine the potential of a prototype project to be implemented in future course structure
 - Outline project requirements needed to create an HTML front end and Python back end to retrieve and convert database tables to shapefile format
- Assisted faculty in troubleshooting Web Map script inconsistencies between referencing API CDN and local Node.js installation