Jason Ma

St. Catharines, ON

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**Objective**

Skilled GIS CADD Technician- Mapping & Property seeking a challenging position to apply my expertise in GIS technologies and contribute to the development and implementation of geospatial solutions.

**Summary of Qualifications**

* Trilingual Chinese, French, English
* Strong communication skills, with the ability to convey complex technical concepts to non-technical stakeholders
* Understanding of geospatial concepts and principles, including coordinate systems, projections, and data integration
* Extensive experience in data collection, data cleansing, and data manipulation for geospatial analysis
* Self-motivated and reliable professional who can work equally well independently or as part of a team
* Skilled in developing custom GIS tools and workflows using Python scripting
* Proficient in database management and SQL for spatial data querying and manipulation

**Technologies**

* CSS
* API
* ArcGIS
* OOP
* Cloud
* HTML
* JavaScript
* Selenium
* Civil 3D
* REACTJS
* SQL
* Azure Cloud
* Python
* AUTOCAD

**Professional Experience**

**Junior GIS Technician (Contract Position) Sept 2022-May 2023**

**Transport Canada St. Catharines, ON**

* Coordinate with vendors & contractors for transmission network issues related to 3rd level until the problem solved
* Provided the sole on-site desktop and network support for approximately for users.
* Profession in ArcGIS and PRO products for map manipulation and the geometries using geopandas libraries
* In charge of correcting roads and corridors for cities, provinces and 3D spatial statistics and remote sensing
* Understood the SQL programming and their query format.
* Used of automation in Python and R programming to calculate the average annual daily travel(AADT) in each corridors for traffic efficiency

**GIS Technician Apr 2021 – Nov 2021**

**Fugro Roadware Inc Mississauga, ON**

* Troubleshoot, analyze and resolve the complex highly integrated, highly customized production environment
* Identify, monitor and document troubleshooting activities in the Azure cloud base system
* Programmed SQL queries for database and desktop for users for data replication on AWS Amazon Web Services and correction using Python Scripting
* Build and manage to obtains survey records for Senior Surveyor from vehicle data control
* Designed and referred polylines using CADD principles within use of MicroStation and AUTODESK practices
* Extensive knowledge using GIS to manipulate shape files used in urban and rural analysis
* Liaison between the client and the other team members working on an incident or service event

**Software Developer Oct 2019 – Oct 2020**

**IBM Toronto, ON**

* Average contract for website & services ranged from $60k to $240k
* Updated client projects such as Shopify
* Using technologies such as REACT, Agile and JavaScript to build the Scotia bank's API platform
* Troubleshoot any technical issue with client's database server online and worked with GIT in running bash to program dev ops and Linux syntax.

**Software Developer Intern Sept 2018 – Aug 2019**

**DOD Tech Canada Richmond Hill, ON**

* Build Android and other dash cam applications using JavaScript and API data structures.
* Improved UI using HTML interface and script design controls to navigate and repair the app on any devices
* Used ArcGIS software to create, maintain and analyze spatial data used to pinpoint exact GPS locations

**Lab Monitor Sept 2016 – Oct 2017**

**York University Toronto, ON**

* Categorized and documented qualified system issues, shared with the tech team using Linux and C programming
* Designed, documented, evaluated 2D and 3D GIS models and mapping products
* Integrated data from various projections, coordinated systems and CAD to GIS conversions
* Converted GIS data into a compatible format for an Asset Management software (Maximo)

**Education & Certifications**

**Bachelor in Environmental Studies, Minor in Computer Science 2020**

York University

* Knowledge of urban planning and design skills such as python, GIS, Java, JavaScript and HTML webpage

**Diploma in Civil Engineering 2010**

Seneca College

* Developed drawings in AutoCAD resurveying roads designs and use of Civil 3D for sewer layout design

**Front End Developer Certificate**

**Certificate in First Aid from Security**

**Certificate in GIS in python scripting**

**Certificate in ESRI GIS, SQL solution and Information Technology infrastructure library**

**Training & Courses**

Scrimba Boot Camp Code Training School 2021-2022

Clever Programmer 2019- 2020

Front End and API Development

Python and React JS program