Jason Ma

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

Diploma in Civil Engineering   **2010**
Seneca College
  o   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