Dave Choi

Personal information

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Experience

Safe Software Inc.   (July 2024– Present)

Technical Support Specialist

- Provided technical support for customers with ArcGIS formats and SharePoint related issues with FME Form.
- Created known issue articles and updated knowledge base and troubleshooting articles.
- Participated, prepared, and delivered Webinars and Q&A sessions.
- Created information articles for internal knowledge base.

Safe Software Inc.   (April 2024 – May 2024)

Technical Support Intern – Practicum: Data Integration for Utilities with FME

- Created Tutorial Articles on FME and ArcGIS Utility Network.
- Topics include Reading/Writing ArcGIS Feature Service, Database Operations/ChangeDetection, Generating HTML Report, Synchronizing Datasets.

Esri Canada Centre of Excellence (ECCE) - App Challenge   (April 2024)

Team BCITree, App:Vancouver Tree Equity Visualizer, First place winner

- App visualizing Vancouver canopy cover, street trees, treetop points derived from LiDAR, 3-30-300 rule and index of Vancouver at Local boundary and Dissemination Area scale.
- Devised methodology, facilitated teammate tasks, and created app using ArcGIS Experience Builder. See Project.

The University of British Columbia – Faculty of Forestry   (Jan 2023 – May 2023)

Capstone Projects (UFOR 401)

[Individual Project]

- Evaluated the impact of urban development on the urban heat island effect at a specific study site on UBC campus using zonal statistics.
- Generated time series data for land surface temperature from Landsat 8 satellite imagery and air temperature from building HVAC sensors.
- Presented research findings effectively to various professors, stakeholders and interested students.
- Conducted statistical validation of land surface temperature data with air temperature data using RStudio.
- Shared results and insights with UBC Social Ecological Economic Development Studies (SEEDS) and UBC Campus and Community Planning.

[Group Project]

- Preliminarily assessed heat-vulnerable areas on UBC campus.
- Utilized remote sensing techniques to produce Normalized Difference Vegetation Index Normalized Difference Water Index, and land surface temperature using Landsat 8 satellite data.
- Generated landcover classification of UBC campus using maximum likelihood supervised classification.
- Presented research findings concisely and comprehensively to capstone class and stakeholders.
- Shared results and insights to UBC Social Ecological Economic Development Studies (SEEDS) and UBC Campus and Community Planning.

Education

British Columbia Institute of Technology (2024)

Advanced Diploma in Geographical Information Systems
- Graduated with distinction.
- Acquired and applied knowledge of the fundamentals of geomatics, AutoCAD, scripting python, GIS, ArcGIS, database/ORDBMS, SQL, HTML, and JavaScript.
- Utilized object-relational database management systems to manipulate spatial and non spatial data.

The University of British Columbia (2023)

Bachelor of Urban Forestry, *Minor in Urban Greenspace Management*
- Graduated with honors.
- Acquired and applied knowledge of the principles of forestry, urban forestry, arboriculture, biology, conservation, ecology, ecosystem management, sustainability, research, and analysis.
- Conducted comprehensive literature reviews on various topics, including urban heat island effect, urban cooling effect, limitations of i-Tree Eco, etc.
- Effectively communicated research findings through written documents and oral presentations.

British Columbia Institute of Technology (2018)

Electrical Foundations
- Covered courses includes Applied Mechanics, Fundamentals of Electricity, Principles of Magnetism, Wiring Methods, Electrical Codes + Plans + Specifications, AC Circuit Analysis, Electronic Devices, Basic Motor Control, and Computer skills + Job Preparation.

Skills

GIS Software Competency	ArcGIS Pro/Online/Portal/Server/REST Services/Experience Builder, QGIS, FME Form, QGIS, ENVI, Metashape, Catalyst Professional, AutoCAD, MicroStation, Google Earth Engine.
Coding Language Competency	Python, R, SQL, Java, JavaScript, HTML + CSS, Arcade
Soft Skills	Attention to detail, Adaptability, Technical writing & communication, presentation preparation & delivery, Analytical & Critical thinking, Conflict resolution & management

Certifications

Emergency First Aid for Industry (OFA Level 1)	(2022)
Level A CPR/AED	(2022)
General Audience Workplace Hazardous Materials Information System	(2022)

Languages

English: Native Language

Korean: Intermediate Listener, Speaker, and Reading, Novice Writing