William Xin

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OBJECTIVE

Motived Engineering graduate looking to kick-start my career as a GIS Developer. Looking to gain knowledge in building and maintaining databases, developing web applications, and analyzing spatial relationships.

EDUCATION

B. S Civil Engineering – Purdue University, West Lafayette, IN   August 2017- May 2022
GPA 3.1/4.0

GIS Certificate – Penn State, Online   May 2023 – May 2024
GPA 4.0/4.0

Master of GIS– Penn State, Online   May 2024 – Current
GPA 4.0/4.0

RELVENT COURSEWORK:

- Principles and Practice of Geomatics
- Advanced C Programming
- Linear Algebra
- Calculus & Differential Equation
- Statistical Methods
- Structural Steel Design
- Geotechnical Engineering
- GIS Database Development
- Open Web Mapping

- Graphic for Civil Engineering & Construction
- Mechanics of Materials
- Structural Analysis
- Civil Engineering Materials
- Hydraulics
- Reinforced Concrete Design
- Transportation Engineering
- GIS Programming and Software Development
- * Geospatial Web Application Development (progressing)

SKILLS

Programming Skills: MATLAB, Python, HTML, CSS, JavaScript, R, MySQL, Git
Computer Software: Microsoft Office (Word/ Excel/ PowerPoint), ArcGIS, QGIS

PERSONAL EXPERIENCE

Classwork

- Created an interactive web map showing historical United States political boundaries using Leaflet API for Open Web Mapping Class
- Created a script tool that automatically classifies, and labels graduated symbology classes in ArcGIS for GIS Programming and Software Development Class
- Created hypothetical Relief Zone Map using Proximity and Overlay Analysis in ArcGIS Pro for Emergency/Disaster Management.
- Digitized a paper map of a portion of 1920 Charlottesville, Virgnia City from a Sanborn Map in ArcGis Pro
- Performed Site Selection Analysis to set up wildlife conservation zones in Centre County

Personal Projects

- Created an Interactive map of the US 2020 Census in Illinois in Leaflet
- Created a 3D population Density map using ArcGIS Pro
- Created an Illinois Elevation and Watershed Map using ArcGIS Pro