

Zhiqing Pan | 潘志清

Brief Introduction



I am an undergraduate student in [Shan Dong University of Science and Technology](#) at the [College of Geodesy and Geomatics](#). I am currently working on the topic of **Geographic Information Systems (GIS)** (especially its application in **Web**). 3D WebGIS (WebGL) is my next topic to dive into.

Education

- 2020.09 - 2024.06: B.S. in Geodesy and Geomatics, [Shan Dong University of Science and Technology](#), China

Gallery

- `TypeScript`: [RVGeo](#) --- A TypeScript library for spacial information analysis and visualization.
 - For vector geographic data:
 - Implemented the functions of reading, parsing, storing and visualizing vector geographic data in GeoJSON format.
 - Using TypeScript to implement the conversion from geographic coordinates to Mercator coordinates (EPSG:4326 -> EPSG:3857) and the measurement of the distance between two points on the Earth's surface.
 - Created a Voronoi diagram based on the Delaunay triangulation, which is based on the WGS84 coordinate system.
 - For raster geographic data (remote sensing images, DEM):
 - Implemented the functions of reading, parsing, visualizing raster geographic data in GeoTIFF format.
 - Implemented 2D Fast Fourier Transform (FFT).
 - Document:
 - The project has a matching [document website](#), [example page](#) and a simple tutorial [website](#).
- `JavaScript`: [PzqCanvasTerminal](#) --- A terminal emulator based on HTML5 Canvas and vanilla JS.
 - Using the design idea of data and view separation, the command auto-completion and blog address auto-completion functions are implemented by using the prefix tree.
 - Implemented the intelligent dialogue function by calling Gemini API.

Contact me

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