PARINDA PANNOON
GIS Specialist, Researcher, Cartographer

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KEY COMPETENCIES

Programming
- Python
- Matplotlib
- Plotly
- Geopandas
- HTML/CSS/JavaScript
- Machine Learning
- ArcPy

Database
- PostgreSQL
- SQL
- PostGIS
- GeoServer

GIS/Remote sensing
- ArcGIS Pro
- ArcGIS Online
- QGIS
- Google Earth Engine
- Google Earth Pro
- ENVI
- Trimble eCognition

Web mapping
- Folium
- Leaflet
- OpenLayers JS
- Mapbox API
- Google Maps API
- Carto
- MapTiler Cloud
- Flask

Data visualization
- PowerBI desktop
- ArcGIS Dashboard
- ArcGIS Story map
- Streamlit
- Tableau Public

3D modelling
- Blender
- 3D Builder
- SketchUp
- Cesium

Cartographic design
- Adobe Ilustrator
- Adobe Photoshop
- Inkscape
- GIMP

Other
- Git
- Docker
- Prompt engineering

PROFESSIONAL EXPERIENCE

Web Developer (Freelance)   **March 2025**
Riscognition GmbH, Austria
- Developing a business landing page and designing responsive layouts on WordPress
- Ability to customize add-on themes and existing templates on WordPress
- Designing on graphical elements considering UX/UI on website

Project assistant   **January 2025 - Current**
Research unit of Cartography (TU Wien)
- Leveraging AI technologies (e.g., LLMs, image generation models) to assist in map and icon design
- Examining the integration of AI for improved map designs.
- Producing a project report, research papers, and proposals.

Geovisualization/Web Developer (Contract)   **November 2024 - Current**
Department of Geoinformatics, University of Salzburg-Z_GIS
- Developing a business landing page and designing responsive layouts on WordPress
- Ability to customize add-on themes and existing templates on WordPress
- Troubleshooting technical issues related to web space and domains.
- Creating map dashboards from EO and spatial data on Tableau public.
- Managing spatial data for interactive visualization and thematic maps.
- Designing white paper layouts, graphical elements and preparing for desktop publishing.

Geospatial Intern   **May 2023 - July 2023**
Ubicube GmbH, Austria
- Performing geospatial analysis including map visualizations and statistics in QGIS and ArcGIS Pro.
- Testing machine learning models for building footprints extraction models.
- Writing an analysis report of flood hazard insights for improving the quality of real estate valuations.
- Creating maps of flooding levels using ArcGIS Pro.

GIS Specialist   Oct 2020 - Sep 2022

Research Unit, Chulalongkorn University
• Conduct research into the project of Evaluation of Sedimentation Impacts on a Reservoir.
• Make geoprocessing models by using Model builder in ArcGIS and ArcPy.
• Conduct a geospatial training for mapping Malaria hotspots incidence using ArcMap and ArcGIS Pro.
• Perform image classification for analyzing land use and land cover changes from satelite images.
• Compile and update spatial data files from relevant government agencies.
• Involve the project of Toponym distributions in the part of spatial analysis and cartographic work.

Cartographer (Contract)   June 2021 - Oct 2021

Mr. Kasidi Khunwipulsilkul, PhD
• Carry out spatial analysis of buildings density and areas using ArcGIS software.
• Conduct research into Bangkok city plan for creating maps.
• Classify land use and building types.
• Perform land use and building density maps by using ArcGIS.
• Summarize spatial statistics to outline results.

EDUCATION

Master of Science in Copernicus Master in Digital Earth Program
Geoinformatics and Cartography (ERASMUS MUNDUS Scholarship)   Oct 2022 - July 2024
• Paris Lodron University of Salzburg, Austria
• Palacký University Olomouc, Czech Replublic

Bachelor of Arts, Geography and Geoinfomatics | 2nd Class Honors   July 2016 - June 2020
• Chulalongkorn University, Thailand

HONOURS AND AWARDS

EY Open Science Data Challenge 2024. (Top ten global semi-finalist)   May 2024
Organization: EY (Ernst & Young)
Topic: Strom damage assessment from Maria hurricane by Machine learning object detection

ML4Earth2023 Physics-aware machine learning. (The winner 1st Place)   Sep 2023
Organization: Technical University of Munich(TUM) Data Science in Earth Observation
Topic: Using physics-aware machine learning to model and forecast flood events

Innovation Solving PM2.5 Problem Hackathon. (The winner 3rd Place)   Sep 2023
Organization: YouTHful Issue
Topic: Innovation for solving air pollution PM2.5 in Bangkok

Foresight DRM: Disaster Mapping Hackathon 2023. (The winner 2nd Place)   Apr 2023
Organization: Global Geo-Intelligence Solutions Ltd.
Topic: Find a solution with a positive impact on hurricane management in the Bahamas.

ML4Earth Hackathon 2022 (The winner, 3rd place)   Nov 2022
Organization: Technical University of Munich(TUM), Future Lab
Topic : Crop yield prediction with remote sensing and machine learning and exploring
relations with explainable AI.

PROJECTS

Implementation of Artificial Intelligence for Creating Maps | Master's thesis
• Assessing the capability of AI-generated maps ChatGPT-4, and developing by Prompt Engineering.
• Comparing AI's map quality with a traditional cartographic technique.
• Executing maps by Python-Geovisualisation Libraries (e.g., Folium, Geopandas).

Streamlit Dashboard of Burned Areas in Portugal
- Creating dashboard using Streamlit-leaflet in Python to visualize a map
- Developing data visualization such as charts, graphs by HTML/CSS/JavaScript

Web map application, hurricane track visualization I Master's semestral project
- Creating hurricane web map using Folium-Python integrated with Flask web application framework.
- Managing hurricane track with timestamps by using Folium "TimestampsGeoJson".
- Developing geolocation of hurricane formation(date and time) and emergency routes by inserting locations.

PUBLICATION

An Analysis and Assessment of Water Adequacy for Economic Crop Cultivation in Rayong, Thailand
This research evaluates the adequacy of rainfall and irrigation for economic crop cultivation in Rayong province, Thailand using GIS techniques; model builder, LULC analysis, Python workflow automation.

LANGUAGE SKILL

- **English:** Proficient
- **Thai:** Native