

# ALEX THOMPSON

+886 968-780-902 • alex@alexthompson.work • alexthompson.work

Master of Science in Cartography and GIS, with a focus on emerging trends in web mapping and data visualization. Experience in application development, business analysis, project and team management, and geospatial analysis. Adaptable attitude and a demonstrated ability to excel in fast-paced environments.

## Education

### University of Wisconsin-Madison

*Master of Science in Cartography and GIS* 4.0/4.0 September 2018

Coursework focused on web map development, spatial analysis techniques, UI/UX design relevant to interactive cartography, and geovisualization. Tools and libraries included ArcGIS, QGIS, GRASS, GDAL/OGR, Leaflet, D3, Mapbox, JavaScript, and Python.

### National Geospatial-Intelligence Agency

*Intermediate Geographic Intelligence Specialist Course* Honor Graduate October 2014

*Basic Geographic Intelligence Specialist Course* Distinguished Graduate November 2012

### Virginia Polytechnic Institute and State University

*Bachelor of Science in Business Management with a Minor in Leadership* May 2007

Coursework focused on Entrepreneurship, Innovation, and Technology. Member of the Student Government Association Student Senate, the Student Government Association Budget Board, and the Entrepreneurial Leadership Initiative.

## Professional Experience

### United States Marine Corps

*Geospatial Intelligence Chief, 3rd Marine Logistics Group G-2* April 2015 — November 2016

- Provided geospatial intelligence support to the Commanding General of 3rd Marine Logistics Group (MLG), in addition to the 12 subordinate units that make up MLG
- Managed the planning, production, and dissemination of over 500 geospatial products—a tenfold increase over the previous period
- Established a digital library to organize nearly 600 gigabytes of geospatial data, drastically reducing time spent on product production and maintenance
- Coordinated with a third-party contractor to implement a networked server solution, streamlining the G-2's infrastructure and enabling faster data sharing between teams
- Built custom geoprocessing models and Python scripts to automate tasks and perform ETL operations, improving both data intake and production speeds
- Implemented standard operating procedures and quality controls to facilitate faster daily production
- Awarded the Navy and Marine Corps Commendation Medal for work done streamlining the data infrastructure and increasing fusion between the different intelligence sections

# ALEX THOMPSON

## *Geospatial Intelligence Analyst, 3rd Intelligence Battalion*

*December 2012 — April 2015*

- Collected, analyzed, and processed geospatial data to aid in the production of intelligence products
- Produced intelligence products in support of the III Marine Expeditionary Force and the 36 countries that fall under its area of responsibility, utilizing the ArcGIS toolset and Python
- Worked with multiple service branches, civilian intelligence agencies, and multinational partners as part of regular operational duties, training exercises, and real-world operations
- Created a specialized GIS training program for Army intelligence analysts while attached to the 1st Special Forces Group
- Meritoriously promoted in June of 2013

## *Geospatial Intelligence Student*

*December 2011 — December 2012*

- Completed over 820 hours of study in geodetic surveying and geospatial analysis at the National Geospatial-Intelligence Agency

## **Self-Employed**

### *Freelance Developer*

*June 2010 — November 2011*

- Worked with a startup company to explore potential web interfaces, from design to basic implementation
- Completed contracts with e-commerce customers, primarily working on backends written in PHP

## **Progress Energy**

### *Associate IT Analyst*

*June 2007 — June 2010*

- Connected internal customers and developers by translating business needs into technical requirements
- Coordinated with cross-functional teams to plan and execute projects
- Developed in-house enterprise software solutions using C# and ASP.NET
- Worked with vendors to implement third-party software solutions
- Managed a software product portfolio of more than a dozen applications

## **Technical Skills**

<i>Geospatial Analysis</i>	ArcGIS, QGIS, GRASS, GDAL/OGR, Leaflet, D3, Mapbox, Turf, OpenStreetMap
<i>Development</i>	HTML, CSS, JavaScript, jQuery, Node.js, React, Redux, Laravel PHP, Python, C#, .NET
<i>Data Management</i>	MySQL, PostgreSQL, PostGIS, Git/GitHub
<i>Key Applications</i>	Photoshop, Illustrator, Sketch, Unity