Nick Peihl

Full stack software engineer

About

- Remote US
- nickpeihl@gmail.com
- (760) 883-0534
- npeihl.com
- nickpeihl
- nickpeihl

Web App Development

TypeScript Node.js

React Redux RxJS

DevOps

Docker Terraform Helm

Kubernetes

Google Cloud Platform

Varnish

Database

Elasticsearch

PostgreSQL

Microsoft SQL Server

ArcSDE

GIS

ArcGIS Desktop / Server

Spatial analysis

GDAL / OGR

Python

ArcPy Django Jupyter

Pandas Geopandas

Summary

I am a full stack engineer with 10+ years experience developing, implementing, and maintaining web applications on every layer including customer requirements, database schemas, DevOps, backend APIs, and frontend components. I work with stakeholders to guide projects from concept to completion.

Experience

Elastic
03/2018 - Present

Principal Software Engineer

Elastic is the company behind the Elastic Stack consisting of Elasticsearch, Kibana, Logstash, and Beats.

- Design, deploy, scale, and maintain the Elastic Maps Service for customers using Bash, PostgreSQL, Varnish, Kubernetes, Docker, Terraform, and Helm.
- Develop, test, and maintain features for the Maps and Dashboards plugins in Kibana using TypeScript, Node.js, Jest, React, Redux, and RxJS.
- Led the production and release of Elastic Maps Server, a new standalone map service product, for enterprise customers by collaborating with Legal, Product Management, Release engineering, and Cloud engineering teams.
- Refactored map service and map data generation saving at least $42,000 per annum.

San Juan County
06/2013 - 02/2018

GIS Coordinator

- Built fast and responsive geospatial web applications using progressive web app technologies.
- Supervised all GIS department projects and staff.
- Backup IT Manager for supervision of staff and critical decision-making.
- Created Footprint Review - a crowdsourcing web application for conflating GIS data.
- Re-negotiated an aerial photography contract to provide higher resolution imagery at no additional cost.

Coachella Valley Association of Governments
08/2005 - 05/2013

GIS Analyst

The Coachella Valley Association of Governments (CVAG) is a municipal planning agency which administers the Coachella Valley Multiple Species Habitat Conservation Plan (CVMSHCP). The CVMSHCP is a 1.1 million acre plan to protect species habitats and ecologies.

- Designed and maintained enterprise geodatabases running on Microsoft SQL Server and PostgreSQL/PostGIS to link geospatial data with a document management system.
- Conducted spatial analyses to determine where and how proposed developments affect protected species habitats and natural communities.
- Designed annual reports showing habitat conservation progress using spatial SQL queries.
- Used Django framework to develop a data entry web application for consultants.

Education

North Dakota State University

Bachelor of Science Management Information Systems / Computer Science