

SHANE BEGMAN

Software Engineer

Contact Information

Boulder, CO

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[Personal Site & Practice Projects](#)

[Git Hub](#)

Skills

• Front End

React	Redux	NextJs
jQuery	Angular	JavaScript
HTML	CSS / SASS	TypeScript
AntDesign	Material UI	Bootstrap
Tailwind	Vite	Webpack
D3	Victory Charts	RTL / Jest

• Back End

Node	Python	Express
Django	Mongo	PostGres
Prisma	MySQL	AWS
Netlify	Digital Ocean	

• GeoSpatial

Mapbox	MapLibre	React Map
Deck GL	Tippecanoe	GDAL
GeoJson	Leaflet	OpenLayers
Turf	ArcGIS	QGIS

Education

Masters of Science (MS). 2008
Engineering - University of Colorado

Bachelors of Science (BS). 2002
Microbiology - Colorado State University

Lead Front End Engineer and Solution Architect

Corteva AgriScience | Remote

2018 - Present

- Lead small Agile team of Frontend engineers in development, architecture, and design of a mapping application to support agricultural research.
- Tech Stack includes React.js (functional components with hooks), Redux, React Map Gl, Mapbox Web Gl, Deck Gl, AntDesign, D3, Vite bundling, AWS Backend with Postgres database.
- Collaborate with cross-functional teams to understand business requirements and translate them into technical solutions.
- Collaborate with product managers and backend developers to gather requirements, architect, and prioritize feature requests.
- Conduct Code Reviews and Merge Request Approvals.
- Utilize GitLab CI/CD for code changes and deployments.
- Commit clean, maintainable, and reusable code for feature requests while identifying and evaluating emerging front-end tech to enhance development, performance, and scalability of the application.

Partner and SaaS Product Developer

MyAssetMap | Remote

2018 - 2022

- Spearheaded the development of a cutting-edge SaaS product catering to land development asset mapping needs, serving as both a partner and lead developer.
- Tech Stack included Mapbox, React.js, Redux, React-Query, Tailwind CSS, Material UI, AWS backend with MySql database.
- Managed a compact team of skilled software engineers, fostering a collaborative and productive work environment to achieve project milestones and deliver high-quality software solutions.
- Drove business development efforts, conducting strategic client outreach to expand the product's user base.
- Conducted product training sessions equipping clients with the necessary skills to maximize their utilization of the software.

National Director of GIS

Manhard Consulting | Lakewood CO

2017 - 2018

- Director of GIS department for Engineering and Land Development firm. Manage GIS teams and Projects while prioritizing project scope, timelines, and budget.
- Developed full stack internal web mapping application for Land Development projects and Engineering site due diligence.

GIS Manager and Web Developer

Tamarack Consulting LLC | Lakewood CO

2012 - 2017

- Played a pivotal role in the dynamic expansion of a startup specializing in Land Development and Civil Engineering, steering the firm's growth trajectory from a team of 2 to a robust team of 20 within a span of 5 years, culminating in its acquisition by Manhard Consulting LTD.
- Assumed comprehensive oversight of all GIS projects, leading the conceptualization, execution, and delivery of GIS solutions tailored to Urban Planning, Land Development, ROW acquisition, Site Discovery, and Business Development needs
- Leveraged ESRI ArcGIS Desktop 10.x as a cornerstone tool to orchestrate a diverse range of geospatial tasks encompassing spatial analysis, data digitization, data editing, data maintenance, lidar and DEM conversions, georeferencing, geoprocessing, and geodatabase design.
- Successfully established and managed GeoServer, facilitating the seamless creation of WMS and WFS services to serve geospatial data effectively.
- Developed interactive Leaflet web mapping applications, instrumental in presenting clients with dynamic visualizations during meetings and demonstrations.

GIS Analyst III

Level 3 Communications | Broomfield CO

2006 - 2012

- Create visualization of telecommunications network data through the production of GIS deliverables and maps, utilizing ArcGIS Desktop 9.x and diverse extensions.
- Demonstrated mastery in the creation and editing of geospatial data, proficiently executing routine geoprocessing tasks, and conducting comprehensive analysis of geospatial data sets.
- Innovated by developing a bespoke toolset using VBA or Python, employing ArcObjects within ArcGIS Desktop, effectively streamlining the nationwide audit process for GIS data.

Fisheries Observer

National Marine Fisheries Service | Honolulu HI

2005 - 2006

- Observed fishing operations aboard commercial fishing vessels in the Pacific Ocean.
- Educated fishing crews about the benefits of responsible fishing methods.
- Identified marine species, recorded GPS coordinates, and maintained field notes.