# Fernando Navarro

GIS Web Developer · React · TypeScript · ArcGIS

Remote (US) · fn@fn-dev.com · fn-dev.com · linkedin.com/in/fernando-n-dev · github.com/fernandonavarro-dev

## SUMMARY

GIS web developer building React and TypeScript applications on the ArcGIS Maps SDK for JavaScript for utilities and infrastructure. 3.5 years on production electric-utility mapping apps used for distribution and transmission planning, and 6+ years across React, geospatial data and GIS. Comfortable owning features end to end, from spatial queries to UI, and shipping quickly with AI-assisted development.

## EXPERIENCE

**GIS Web Developer (Contract)** · PG&E — May 2023 – Present · Remote

- Build React/TypeScript web map applications on the ArcGIS Maps SDK for JavaScript for electric distribution and transmission planning, shipped as several app variants from one shared codebase with app-type gating.
- Built proximity (buffer) search that surfaces nearby planned and active work, helping planners bundle jobs and reduce customer de-energization.
- Built reliability dashboards tracking SAIDI, SAIFI, CAIDI and CEMI, and operations overview dashboards that bring spatial layers and event context together for response coordination.
- Redesigned the map toolbar into a grouped, two-mode (collapsed/expanded) toolbar with flyout panels and config-driven tool groups.
- Built a custom popup joining funded jobs to related permits, and commercial-customer filtering with ArcGIS queries and memoized search over MUI Autocomplete.
- Fixed layer-list state persistence and added saved, named filter views using signal-based state; extracted shared logic into unit-tested helpers. Agile/Scrum with regular code review.

**Full Stack Developer** · Just Click MX — Jun 2020 – Apr 2023 · Remote

- Redesigned and consolidated the order-taking process into a single Next.js and Node application, cutting order placement time by 37%.
- Built an inventory management component handling stock across multiple locations.
- Implemented role-based order status workflows for three user levels.

**Data Analyst / Web Designer** · CORE Data Design & Development — Jan 2020 – Jan 2021 · Oakland, CA

- Automated data cleaning and analysis with Python, Jupyter and Excel; built dashboards in Google Data Studio.
- Built custom WordPress sites and e-commerce stores for small businesses.

**GIS Technician** · UC Berkeley Earth Sciences & Map Library — Feb 2017 – May 2019 · Berkeley, CA

- Contributed to the Mongolian 20th-century Historical GIS Database, published in UC Berkeley Library GeoData.
- Georeferenced, digitized and processed multi-layer historical maps; cleaned and managed geospatial datasets with Python.

## PROJECTS

- **Rural Home Guide** · ruralhomeguide.com — Guide to rural living and land buying; designed, built and deployed solo from GitHub.
- **TRAiVEL.ai** · traivel.ai — Map-based AI travel planner: Next.js, Mapbox GL JS, Turf.js, OpenAI API, Firebase.
- **Historical GIS dataset** · geodata.lib.berkeley.edu — Published polygon dataset of Mongolia's 1959 administrative boundaries.

## SKILLS

**Mapping & GIS:** ArcGIS Maps SDK for JavaScript (@arcgis/core), ArcGIS Online, ArcGIS Pro, Mapbox GL JS, Turf.js, georeferencing, geoprocessing
**Front end:** TypeScript, JavaScript, React, Next.js, MUI, Tailwind CSS, Preact Signals
**Back end & data:** Node.js, MongoDB, Firebase, SQL, Python, Jupyter
**Tooling:** Git/GitHub, CRACO/esbuild, unit testing, AWS, Jira, Agile/Scrum
**AI:** LLM APIs, AI-assisted development and code review

## EDUCATION & LANGUAGES

**B.A. Geography, Minor in GIS** · University of California, Berkeley — 2018
Languages: English and Spanish (bilingual)