

Philip Diegel

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Profile Summary

Full-stack developer specializing in Python, TypeScript, React, and Next.js with a proven history of turning domain-specific problems into software solutions, even in non-traditional environments. Currently building internal GIS tools and automation systems. Experienced across all SDLC phases, from planning to maintenance.

Education

State College of Florida, Manatee - Sarasota – AS in Computer Programming & Analysis Completed Jul 2025

Skills

Programming Languages: Python, JavaScript/TypeScript, PHP, SQL, HTML, CSS
Frameworks & Libraries: React, Next.js, Pandas, SQLAlchemy, NumPy, Node.js, Express, Tkinter
Databases & Dev. Tools: SQLite, MongoDB, Git, GitHub, Vercel, cPanel
Design & Collaboration: Trello, Figma

Experience

Remote CAD Tech / Software Engineer, Stokes Surveying & Mapping, PLLC - Raleigh, NC Sep 2024 – Present

- Designed, developed, and deployed a custom internal GIS web tool to automate parcel research across all of North Carolina, cutting search time from several minutes per parcel to just seconds.
- Integrated NC Onemap APIs and built a full-stack solution to retrieve, validate, and display parcel data for surveyors.
- Collaborated closely with clients and licensed surveyors to verify data accuracy, ensure regulatory compliance, and deliver finalized survey documents on tight deadlines.

Software Engineer, Red Stake Surveyors, Inc. - Sarasota, FL Jul 2019 – Sep 2024

- Spearheaded the development of internal automation tools to eliminate repetitive quoting, lookup, and file-handling tasks, reducing property data retrieval times from 10 minutes to under 5 seconds.
- Designed and deployed a centralized survey data platform that increased staff productivity by over 50% by streamlining access to job records, requests, and status updates.
- Gathered pain points from surveyors and office staff, translated them into functional requirements, and delivered tailored software solutions that improved accuracy and turnaround time.
- Maintained 100% test coverage on production systems, implemented logging and recovery mechanisms, and personally handled issue resolution across the SDLC.
- Balanced full-stack development with IT support and survey drafting duties, consistently delivering under aggressive time constraints with minimal oversight.

Projects

NC Parcel Search – GIS Land Parcel Web App nc-parcel-search.vercel.app

- Developed a GIS-based web tool that enables users to quickly search and retrieve North Carolina land parcel data using various search criteria, streamlining data access for surveyors and researchers.
- Integrated third-party NC Onemap API to fetch and display parcel data, while using Leaflet to dynamically render parcel polygons and nearby parcels on an interactive map.
- Added direct links to county-specific GIS pages for each parcel, improving workflow efficiency for land data research.

Spirit Search – Cocktail Discovery Web App spirit-search.vercel.app

- Designed and launched a recipe discovery platform featuring dynamic content delivery and intuitive browsing.
- Reduced page load times by 30% through performance optimization and efficient caching strategies.
- Delivered 100% test coverage for backend logic and created clean, user-focused documentation.