

# Philip Diegel

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## Professional Summary

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Skilled Software Engineer with a strong foundation in Python, leveraging over five years of experience to automate and optimize complex processes. Proficient in HTML and CSS, with a growing expertise in JavaScript and modern frameworks such as React and Next.js. Recognized for initiating and leading transformative projects that significantly improve operational efficiencies and data accessibility. Adept at developing scalable and secure applications, with a passion for creating user-centric solutions that leverage data to drive business decisions and enhance user experiences. Actively seeking to transition these skills into a dedicated software/web development role.

## Skills

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**Languages:** Python, JavaScript, TypeScript, PHP

**Web Development:** HTML, CSS, React, Next.js, Figma

**Database Management:** SQL, Pyodbc, SQLite, MongoDB

**Version Control:** Git, GitHub

**Libraries & Frameworks:** Pandas, SQLAlchemy, NumPy, Node.js, Express, Tkinter

## Experience

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**Software Engineer**, Red Stake Surveyors, Inc. – Sarasota, FL 2019 – Present

- **Process Optimization & Automation:** Engineered a Python-based system to automate and standardize the collection of ARCGIS county parcel data, slashing data lookup times from over 10 minutes to around 5 seconds.
- **UI Automation & Productivity Enhancement:** Developed UI automation tools using Selenium, pandas, Tkinter, and SQL, seamlessly integrated with Microsoft Access, boosting company-wide productivity by over 50%.
- **Database Optimization:** Overhauled the company's Microsoft Access database, enhancing primary keys and property addresses for faster, more accurate searches and introduced new schemas and table definitions to minimize storage requirements.

## Projects

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**Property Data Collector** [github.com/pdiegel/FloridaPropertyData](https://github.com/pdiegel/FloridaPropertyData)

- **Innovative Data Automation:** Ideated the automation of county parcel data collection, achieving a 95% reduction in lookup times through a newly developed Python-based system.
- **Scalable System Design:** Implemented a scalable YAML configuration to streamline the addition of new counties, paired with a robust class design for data formatting that ensures uniformity and scalability.

**Database Management Helper** [github.com/pdiegel/DatabaseManagementHelper](https://github.com/pdiegel/DatabaseManagementHelper)

- **Comprehensive Data Management System:** Created a Python-based MVC application with Tkinter to automate property data management, significantly enhancing data retrieval speed and accuracy while reducing manual task time.
- **Modular Architecture:** Designed the application with a modular architecture to ensure high cohesion and low coupling between components, leading to increased scalability and reduced technical debt.

**Spirit Search** [spirit-search.vercel.app](https://spirit-search.vercel.app)

- **Web Application Development:** Designed and developed a web application using React and Next.js to dynamically retrieve cocktail recipes, enhancing user content discovery and interaction by 25%.
- **Performance Optimization & Responsive Design:** Optimized front-end performance for a 30% reduction in page load times and implemented responsive design to ensure seamless display across various devices, improving user retention.

## Education

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**State College of Florida, Manatee - Sarasota** – AS in Computer Programming & Analysis

Expected August, 2024