

# Philip Diegel

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## Professional Summary

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Software developer with an affinity for process optimization. Coordinated the development of useful software solutions, such as Spirit-Search and DatabaseManagementHelper. Proficient in database administration systems and fluent in Python, JavaScript, and TypeScript. Knowledgeable about web development using React, and Next.js. Familiar with Git version control, ready to provide solutions that have a significant impact and drive company growth.

## Education

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State College of Florida, Manatee - Sarasota – Associate of Science in Computer Programming May 2024

## Experience

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Software Developer & AutoCAD Drafter, Red Stake Surveyors, Inc. – Sarasota, FL 2019 – Present

- Led the development of surveying automation software, improving efficiency across all processes.
- Over 75% of the company's drafting workload was met with exact and thorough technical drawings on time, satisfying project criteria and client expectations.
- Created a Python Close-Job Lookup application with Tkinter that makes use of regular expressions and fuzzy search methods to improve the accuracy of job searches. Improved operational efficiency and job data retrieval by being seamlessly connected with the business's Microsoft Access database.
- Oversaw the smooth integration of new software systems and worked closely with colleagues to enhance and optimize workflows. Together, we achieved widespread technology acceptance throughout the team and a seamless technological shift that greatly improved process efficiency.

## Projects

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

- Added login features that let users keep track of allergies and save their favorite recipes, which improved user retention by personalizing the experience.
- Created search and filter features, API integrations, and access to an extensive recipe database. TypeScript was used to guarantee application maintainability and dependability.

DatabaseManagementHelper [github.com/pdiegel/DatabaseManagementHelper](https://github.com/pdiegel/DatabaseManagementHelper)

- Developed a Python-based suite designed to automate and streamline database management tasks, enhancing operational efficiency for database administrators.
- Implemented multiple functionalities including data entry, query management, automated report generation, and file handling, using a modular Python architecture.

## Skills

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**Languages:** Adept at front-end programming using TypeScript and JavaScript, and well-versed in back-end and automation work using Python. SQL for querying and managing databases.

**Web Development:** Deep understanding of Next.js, HTML, CSS, and React; used to create interactive and responsive web applications. Knowledgeable about creating server-rendered apps and SPAs.

**Database Management Systems:** Practical experience storing, retrieving, and manipulating data for a variety of projects using SQL, Pyodbc, SQLite and MongoDB.

**Version Control:** Adept at utilizing Git for version management, guaranteeing efficient project tracking and team cooperation.

**Libraries & Frameworks:** Extensive usage of NumPy and Pandas in Python projects for data manipulation and analysis. Knowledgeable about using Node.js and Express to create reliable server-side applications. Created desktop application graphical user interfaces using Tkinter.