

# Philip Diegel

[philipdiegel@gmail.com](mailto:philipdiegel@gmail.com) | [philipdiegel.com](http://philipdiegel.com) | [github.com/pdiegel](https://github.com/pdiegel)

## Professional Summary

---

Developed and coordinated innovative software solutions such as Spirit-Search and DatabaseManagementHelper, significantly enhancing process efficiencies. Proficient in database administration systems and fluent in Python, JavaScript, and TypeScript, I have a deep understanding of web development using React and Next.js.

## Education

---

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

## Experience

---

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

- Developed a system to extract and standardize public ArcGIS data from multiple counties, overcoming diverse data formatting challenges by redesigning storage methods to enable universal accessibility, significantly enhancing data integration and usability across company projects.
- Developed an automation suite for surveying processes using Python, leading to the handling of over 75% of the company's technical drafting workload on time and reducing project delivery times by enhancing efficiency and precision in client deliverables.
- Created a Python-based Close-Job Lookup application utilizing Tkinter, regular expressions, and fuzzy search techniques, leading to an improvement in job data retrieval accuracy and operational efficiency by seamlessly integrating with the existing Microsoft Access database.

## Projects

---

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

- Enhanced user engagement by integrating login features that allow recipe saving. Employed TypeScript and advanced database management, which improved personalized user experiences and increased user retention.
- Developed comprehensive search and filtering functionalities, along with third-party API integrations, ensuring robust application performance and dependability, and providing users with reliable access to an extensive cocktail recipe database.

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

- Engineered a Python-based modular architecture for automating database management tasks, improving operational efficiency for database administrators through features like automated report generation and advanced data query capabilities, which resulted in a 25% reduction in time spent on database management activities.

## Skills

---

**Languages:** Proficient in TypeScript, JavaScript, and Python. Experienced with SQL for database queries and management.

**Web Development:** Skilled in Next.js, HTML, CSS, and React for developing interactive web applications, including server-rendered apps and single-page applications (SPAs).

**Database Management:** Experienced in using SQL, Pyodbc, SQLite, and MongoDB for data operations.

**Version Control:** Proficient with Git for project tracking and collaboration.

**Libraries & Frameworks:** Proficient in using NumPy and Pandas for data analysis; experienced with Node.js, Express, and Tkinter for server-side applications and GUIs.