Philip Diegel

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Professional Summary

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

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

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

- **Role Summary:** Managed a substantial workload under extreme time constraints, demonstrating versatility and commitment to the company's success. Responsibilities included software development, database management, IT support, handling client communications, and project management. This diverse skill set enabled the implementation of numerous automation and optimization projects, significantly improving operational efficiency.
- **Process Optimization & Automation:** Developed a Python-based system to automate and standardize the collection of ARCGIS county parcel data, achieving a 95% reduction in lookup times (from over 10 minutes to around 5 seconds). Implemented a scalable YAML configuration and robust class design for data formatting, ensuring uniformity and scalability.
- **Database Management & UI Automation:** Created a Python-based MVC application with Tkinter and developed UI automation tools using Selenium, pandas, and SQL. Integrated these tools with Microsoft Access, significantly enhancing data retrieval speed, accuracy, and overall company productivity by over 50%. Designed the system with a modular architecture for increased scalability and reduced technical debt.
- **Database Optimization:** Overhauled the company's Microsoft Access database, introducing primary keys for faster, more accurate searches, and created new schemas and table definitions to minimize storage requirements.
- **Additional Responsibilities:** Identified company-wide pain points and implemented automation solutions in spare time without additional costs to the company. Managed a large volume of client communications, maintained all quote records, and handled credit card authorization forms, all while adhering to stringent deadlines.

Projects

Spirit Search   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

State College of Florida, Manatee - Sarasota – AS in Computer Programming & Analysis   Expected August, 2024