Philip Diegel

Software Engineer
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Profile Summary

- Accomplished Software Engineer with over five years of experience delivering highly visible and complex projects such as **automation systems** and **MVC** applications within fast-paced environments.
- Talented **Full-Stack** Developer with expertise in programming languages (**Python, JavaScript/TypeScript**), frameworks (React, Next.js, Node.js), as well as modern development tools.
- Proven contributions at all stages of the **Software Development Life Cycle** (SDLC), from initial requirements gathering and system design through development, testing, deployment, and maintenance, ensuring seamless integration and robust performance of software solutions.
- Engaged collaborator with strong interpersonal skills, able to influence and **align multiple teams** with conflicting priorities to drive progress under aggressive time constraints.

Education

State College of Florida, Manatee - Sarasota **Bradenton, FL**
A.Sc. in Computer Programming & Analysis 2024 (Expected)

Technical 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

Professional Experience

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

- Contributed to the technical effort by managing and enhancing automation systems and database management platforms, encompassing roles from software development to IT support, project management and client interactions, while delivering clean and scalable code in **Python**.
- Collaborated closely with colleagues to identify and resolve individual pain points, ensuring prompt and effective solutions to enhance workplace satisfaction and productivity.
- Transformed pain points into technical requirements, researched technologies, and selected architectural designs, resulting in scalable and performant automation solutions, delivering solutions within strict deadlines and budget.
- Engineered a **Python**-based system to collect property data, featuring a scalable **YAML** configuration and robust class design, leveraging local **gzip storage** for in-memory manipulation of database tables and automated fetching of parcel data via scheduled tasks, ultimately achieving a **95%** reduction in lookup times from **10** min. to **5** secs.
- Developed a database management **MVC** application with **Python,** employing **Tkinter** for the UI, **Selenium** for automation, **Pandas** for data handling, and **SQL** integrated with **Microsoft Access**, enhancing data retrieval speeds and accuracy, which resulted in a productivity increase of over **50%.**
- Conducted comprehensive testing on the developed software, employing **Unit Tests** and **Integration Tests** using **PyTest**, which ensured that all modules met specific requirements and functioned flawlessly, achieving a test coverage of **100%.** Implemented an efficient logging system to ensure the fast identification and response to unforeseen bugs.
- Successfully deployed the newly developed software using **pyinstaller** to convert the **Python** package into an executable file, stored locally on the company server with detailed revision notes for easy reference, ensuring a seamless transition with a deployment time of **5 min**.
- Engaged in **continuous learning** and professional development, experimenting with multiple user interface libraries such as Tkinter and refining program architecture for optimal solutions.

Projects Experience

Spirit Search Jan. 2024 - Mar. 2024

- Developed a web application to dynamically retrieve cocktail recipes, integrating **React** and **Next.js** to enhance user content discovery and interaction, resulting in a **25%** increase in user engagement.
- Enhanced the web application's responsiveness using **Next.js'** built-in caching, resulting in a **30%** reduction in page load times, and achieved **100%** backend test coverage using **Jest**.
- Created clear, concise and user-friendly **documentation** using **Trello** and **Figma**, providing necessary instructions for maintenance, installation and usage, and followed **clean code** principles for optimal legibility.