

To'a Heck

Software Engineer

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SKILLS

Python, C++, Java, Swift, HTML, JavaScript, CSS, Tailwind, Bootstrap, Microsoft SQL Server, MySQL, IIS, SAP Security, Xcode, Firebase, ARKit, CoreML, ETL, Jira, AWS Bedrock, AWS S3

PROFESSIONAL EXPERIENCE


11/2022 – Present **IT Applications Specialist**, *Topcon Positioning Systems*
Livermore, CA

- Spearheaded process automation using Python, reducing manual processing time and enhancing efficiency in data analysis.
- Maintained a legacy web application using Classic ASP, SQL, and IIS, resolving issues and optimizing performance to meet ongoing departmental needs.
- Collaborated with the warehouse team during migration to Zebra scanner phones, providing CSS, HTML, and JavaScript expertise to resolve SAP UI configuration issues, accelerating the transition and enabling faster testing.
- Supported SAP-related tasks by assisting with user access and security configurations, demonstrating an eagerness to learn and contribute to SAP workflows.

05/2023 – Present **Freelance Software Engineer**, *Forty-me LLC*
Pleasanton, CA

- Collaborated on Apple/iOS development projects, driving the design and implementation of innovative applications tailored for iOS devices in a startup environment.
- Leveraged Apple's CoreML machine learning model to integrate machine learning capabilities into iOS applications, enhancing functionality and user engagement.
- Implemented ARKit technologies and frameworks to develop augmented reality features, enhancing user experiences in iOS applications.
- Actively participated in the startup process, collaborating closely with a small team to drive innovation and secure funding for future development.

PROJECTS

AI Flower Detection App, *Swift, Xcode* 

- Developed an AI application that utilizes the CoreML Framework and iPhone camera to use machine learning to determine flower species.
- Applied the Wikipedia API to display relevant information about the detected flower species.
- Showcased advanced iOS development concepts including protocols, delegates, and closures, showcasing proficiency in Swift programming and API integration.
- This project can be easily modified by simply swapping out the ml model for any type of image classification allowing it to be extremely modular.

Database Maintenance Program, *Python, Microsoft SQL Server*

- Engineered Python scripts to automate data extraction from Excel files which minimized errors related to data discrepancies and kept databases orderly.
- Created a system to identify and reconcile discrepancies between the database and the weekly-updated Excel sheets, including changes in part numbers and descriptions.
- Utilized SQL queries to update the database with corrected and new data from the Excel sheets, ensuring data integrity and consistency.

EDUCATION

12/2023 **B.S. - Computer Science**, *California State University, East Bay*
Hayward, CA