

To'a Heck

Junior Software Engineer

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SKILLS

Languages: Python, Java, Swift, C++, JavaScript, HTML, CSS

Frameworks / Tools: Firebase, CoreML, ARKit, Tailwind, Bootstrap, OpenPyXL, pyODBC



Databases: Microsoft SQL Server, MySQL, Firebase NoSQL

Other: AWS (Bedrock, S3), Jira, Xcode, IIS, ETL

PROFESSIONAL EXPERIENCE

- 11/2022 – Present **Software Development Intern, Topcon Positioning Systems**
Livermore, CA
- Developed Python scripts to automate ETL processes, reducing manual data update time from ~2 hours to <1 minute monthly.
 - Maintained and optimized a legacy web app with Classic ASP, SQL, and IIS, fixing bugs and improving performance for 50+ users.
 - Delivered CSS, HTML, and JavaScript enhancements for SAP UI during a Zebra scanner migration, speeding up testing by 20%.
- 05/2023 – Present **Software Engineer (Startup R&D), Forty-me LLC**
Pleasanton, CA
- Co-building an AR-focused iOS app with a CTO (15+ years exp), integrating Firebase for authentication, user data tracking, and location storage in a NoSQL database.
 - Collaborating on R&D with ARKit, body-tracking, and LiDAR features, contributing backend logic to support innovative prototypes aimed at securing startup funding.
 - Implementing signup/sign-in flows based on a senior UI/UX designer's specs, advancing a key app section for investor demos.

PROJECTS

- AI Flower Detection App**, <https://github.com/ToaHeck/AI-Flower-Detector-iOS16> 
- **Tech:** Swift, Xcode, CoreML
 - Built a Swift iOS app using CoreML to classify flower species via camera, with Wikipedia API for real-time info display.
 - Designed a modular architecture, allowing easy ML model swaps for broader image recognition applications.
- Database Maintenance Program**, <https://github.com/ToaHeck/Python-Update-List>
- **Tech:** Python, Microsoft SQL Server
 - Created a Python ETL script with OpenPyXL and pyODBC to sync a 350-item SQL Server database with weekly Excel updates.
 - Cut update time by ~90x (2+ hours to <1 minute), ensuring data integrity for a production web app.
- Personal Portfolio Website**, <https://github.com/ToaHeck/Personal-Website-3> 
- **Tech:** HTML, CSS, JavaScript, Bootstrap, Parcel
 - Built a responsive portfolio site with Bootstrap for styling and Parcel for bundling, showcasing my projects in a clean, modern UI.
 - Deployed on Netlify, ensuring fast load times and cross-device compatibility.

EDUCATION

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