

Hayden Dickson

Software Engineer | Salt Lake City, Utah

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WORK EXPERIENCE

Software Engineer

Oct. 2023 – Present

Pixels on Target LLC

- Designed and programmed a scalable python application designed for efficiently loading firmware onto embedded systems, utilized by clients and internal staff.
- Used practices like scrum, to collaborate with a team of senior and junior developers, working together to achieve goals in a timely and efficient manner.
- Integrated and updated code bases to work cohesively with other programs.
- Worked on C++ application software development, using flash and linker scripts to optimize performance. Had hands-on experience working with hardware, ensuring precise integration of software with embedded systems.
- Implemented protocols using UART, contributing to seamless communication between hardware.
- Used tools such as ST-LINK utilities, putty, STM cube programmer to help with the firmware loading process.
- Experience in industry-standard version control using Git and bitbucket.

EDUCATION

BS Computer Science – Weber State University

Ogden, UT

Computer Science Bachelors

Dec. 2023

Programming Essentials Certificate of Proficiency

Dec. 2022

Computer Science Associates

Aug. 2023

PROJECTS

Pokémon Team Builder | Android Studio, XML, Java, RoomDB

- Designed and developed a frontend-backend Android application facilitating user selection of Pokémon to assemble teams.
- Integrated API calls to fetch and manipulate Pokémon data seamlessly, and utilized RoomDB for local storage with dynamic adding and deleting capabilities.

EarBook | React, NodeJS, Express, MongoDB, CSS, HTML

- Developed a MERN stack application enabling users to join rooms and play music collaboratively.
- Integrated Spotify's API system for seamless song search, play and queue functionality.
- Implemented Spotify authentication using tokens for user access control.

Stewarts Lawn Chemical Tracker | Django, Python, SQLite, HTML

- Architected and developed a full-stack web application enabling user registration and database storage functionality.
- Implemented user authentication to restrict unauthorized access.
- Integrated search functionality for selected chemicals, displaying results.
- Provided functionality for users to calculate chemical rates based on square footage and selected chemical.

TECHNICAL SKILLS

Frameworks, Django, MERN, ASP.NET, MEAN, MVC, MVVM

Languages: C#, C++, C, Python, Java, React, Angular, PHP, HTML, CSS, Kotlin, Typescript, Vue

Code Management: GIT, Jira, GitHub, bitbucket

Database: MySQL, RoomDB, MongoDB, My SQLite