

Joshua Walker

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PROJECTS

- Mileage Log Application (2019 – 2022). Prototyped an iOS & Android application to track and integrate employee vehicle mileage within the existing accounting system. Written in **Dart** with **Flutter** SDK.
- Rainfall Data (2018 – 2022). Created a custom reporting system to track precipitation data from personal and government/airport (NWS) weather stations. Utilized Wunderground API and web scraping, used **REGEX** analysis to summarize and email reports with triggered sites using **.NET** mail server integration.
- Full Stack port of rainfall data project (2018 – 2019). Ported existing project to a full stack single page application using **MongoDB**, **Express**, **React**, and **Node** (**MERN** stack) and deployed via CI/CD to Heroku.

PROFESSIONAL EXPERIENCE

Bondlink, Boston, MA — *Frontend Software Engineer*

April 2022 - April 2023

- Supported requests for new product features through customer coordination, defining requirements, and integrating solutions
- Architected dozens of system components to meet strict design requirements, resulting in reusable code to reduce development effort by 40% per new web page
- Successfully decreased customer chart rendering time by up to 500% through a combination of custom and native React performance hooks
- Achieved accessible web pages by complying with Web Content Accessibility Guidelines (WCAG) 2.2 by refactoring input components and verifying with compliance tools
- Improved the process for generating mock data, which reduced team testing time by 15%, by enhancing the legacy process with updated scripts and documentation

Wetland Studies and Solutions, Gainesville, VA

— *Environmental Compliance Specialist - Team Lead*

September 2014 - April 2022

- Developed software to eliminate ~10 hours/ week of overhead by automating folder/file organization, recurrent information, and weather data on daily inspections and reports
- Spearheaded collection and reporting of precipitation data on 400+ weather stations saving ~2 hours per day of manual lookup and analysis by providing a simple GUI interface to update projects/ weather stations
- Led a team of 3-5 technicians/specialists in daily inspections and permitting, developed proposals, managed project budgets/timelines, and advised clients on permit/regulatory project compliance

TECHNICAL SKILLS

- Programming Languages: TypeScript, C#, Java, HTML, (S)CSS, SQL, Dart, Python, Clojure(script)
- Tools/Frameworks: GIT, Jira, AWS, PostgreSQL, MySQL, Jest, Heroku, Docker, Kubernetes, MongoDB, React, Redux, Node, Express, Svelte/SvelteKit, Flutter, .NET, PowerShell, Bash, GIS
- Certifications: FreeCodeCamp - Responsive Web Design, JavaScript Algorithms and Data Structures

EDUCATION

Shenandoah University, Winchester, VA
B.S. Environmental Studies, B.S. Biology

August 2009 - May 2013