Isaac Ballone

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EDUCATION

Milwaukee School of Engineering   Milwaukee, WI
B.S. in Software Engineering   *Sep 2017 – May 2021*
Minor Degree in User Experience (UX)

PROJECTS

Message Highway | *[Website](#)*
- An affordable, no-fuss SMS messaging service. Message Highway handles the logistics of sending hundreds of texts on behalf of an organization in an easy-to-use interface.
- Created from the ground up, and learned valuable skills for designing and releasing a project from scratch.
- Written in Java and Clojure. Built upon Jetty, Ring, Reitit, and more. Managed on a Linux VPS via SystemD.
- Integrated with 3rd party REST APIs and Java libraries, such as Stripe, Twilio, and CouchDB.

Slouch | *[GitHub](#)*
- The first idiomatic Clojure interface to Apache CouchDB. Slouch documents are drop in replacements for Clojure atoms, a built-in type. The result is an joyful, natural way to update CouchDB documents.
- Created for use in future projects and to give back to the open source community.
- An offshoot from Message Highway.

WORK EXPERIENCE

Self Employed   Milwaukee, Wisconsin
Software Engineer   *Feb 2023 – Present*
- Planned a career break to work on personal projects, learn, and accelerate my growth as an engineer.
- Released an SMS service called Message Highway and a CouchDB library for Clojure called Slouch.
- Full-stack web development. Actively growing an online platform as a one-man army.
- Explored interests in game development and low level programming in C, Zig, and Rust.
- Learned from talented individuals in the open source space and released my own open source software.

Brady Corporation   Milwaukee, Wisconsin
Software Engineer II   *Oct 2022 – Feb 2023*
Software Engineer I   *Jun 2021 – Oct 2022*
Software Engineer Intern   *Jan 2021 – Jun 2021*
- Full-stack development on the BradyID eCommerce website using C#, Sitecore CMS, AngularJS, and Microsoft SQL Server.
- Developed new features for selling customer-specific product SKUs online. These features served Brady's most important customers and reduced manually placed orders through customer service.
- Played a crucial role in a large CMS version bump, from Sitecore 9 to Sitecore 10 in Docker.
- Earned a promotion for trailblazing new features, helping new hires, and being an active team member.

Collins Aerospace   Cedar Rapids, Iowa
Software Engineering Intern   *Jun 2019 – Sep 2020*
- Developed, tested, and debugged waveform code for military radios in C++.
- Closely followed strict specifications and requirements for waveform protocols Link 16 and MIL-STD-188/220.
- Created a Wireshark plugin to debug radio network traffic. The plugin decreased debug time by providing message introspection and filtering.
- Learned how to effectively maintain legacy codebases by testing, reading documentation, and asking questions.

SKILLS

Languages: C#, Javascript, Clojure, Java, Python, SQL, Lua, C/C++, Zig, Emacs Lisp
Technologies: .NET, Microsoft SQL Server, REST, Apache CouchDB, Node.JS, Linux, Git, Docker, Azure, Emacs
Libraries: Sitecore, Selenium, Windows Forms, AngularJS, React, Express, Ring, Leiningen, core.async, next.jdbc
Process: Scrum, Scaled Agile, CI/CD, Unit/Integration/Regression testing