Abraham White

☎ +1 (937) 979 3844 • ✉ abelincoln.white@gmail.com • **in** whiteabelincoln
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Education

Utah State University	**Logan, UT**
BS Computer Science, Mathematics Minor	*Aug 2015–Dec 2020*

Experience

Campbell Scientific, Inc	**Logan, UT**
Software Engineer	*Apr 2021–Present*

Worked as a full-stack software engineer creating an Automated Weather Observing System (AWOS/ASOS) platform, currently in use at multiple airports around the world. This software will be used by the NWS/FAA/NOAA at over 600 airports in the United States, and will replace the countrywide observation network for the Netherlands' meteorological agency (KNMI).
Responsibilities included:
○ Creating a user-friendly and data-driven web interface using TypeScript and Vue.js
○ Writing sensor drivers, weather data processing algorithms, and web APIs for a C++ backend
○ Implementing a VT220 based terminal interface for communication with legacy hardware and software
○ Writing sensor simulators for use internally by developers and externally by site managers
○ Leading scrum standup meetings and sprint reviews as a backup scrum master
Notable achievements:
○ Wrote an internal parser combinator library which greatly simplified intake of data from our sensor drivers.
○ Created a domain specific schema language to provide type-safe API communication between TypeScript and C++.
○ Rewrote our C++ based terminal interface to enable component-based UI design, similar to Vue.js. This resulted in better encapsulation and modularity vs our previous solution, and lowered the barrier of entry for frontend developers.
○ Spearheaded the migration from a custom Vue.js and Webpack configuration to a standardized Vue CLI setup, reducing the complexity of the build process and allowing for resource sharing with other teams using Vue.js.

My Financial Foundations, LLC	**Logan, UT**
Self-Employed Web Developer	*Apr 2019–Apr 2021*

Contracted to create and maintain a website that provides financial and insurance calculators as a service. Technology used includes:
○ Static site generation with React and GatsbyJS
○ Attractive user interface using Material-UI
○ Content Management System (CMS) with NetlifyCMS
○ Payment processing with Stripe
○ Hosting with AWS technologies, such as Amplify, Cognito, Lambda, and DynamoDB

Shingo Institute	**Logan, UT**
Senior Developer	*Dec 2017–Apr 2019*

Developed and maintained an international event coordination portal used by over 27 affiliate companies, and:
○ Supported back-end API systems written in Node.js, virtual servers in the cloud, and public web pages
○ Containerized 6+ microservices and web applications using Docker
○ Wrote automated unit and integration tests to enable continuous deployment of applications
○ Created a SSL enabled reverse proxy system using NginX
○ Mentored a junior developer through code reviews, stand-up meetings, and training
○ Refactored a GRPC and microservices based backend to a monolithic architecture

Sunrider International	**Torrance, CA**
Web Developer Intern	*Jun 2017–Aug 2017*

Helped write and internationalize an ecommerce website for use in 17 countries, and:
○ Collaborated using Agile/SCRUM in a large (10+ developers and designers) team environment
○ Learned and applied Angular4, Redux, and RxJS in building a responsive website
○ Added features to a Flask API server using Python 2.7 and PostgreSQL
○ Created extensive integration test suite for 10+ web pages

Computer skills

Programming Languages: TypeScript, JavaScript, C++, Python, Haskell
Databases: MySQL, PostgreSQL, AWS DynamoDB
Web Technologies: Vue.js, React, React Native, Angular, AWS, Git
Scripting: POSIX Shell, Bash, Powershell