Abraham White

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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 II   *Apr 2021–Present*

Developed a cloud-based measurement observation platform which will replace the countrywide observation network for the Netherlands' meteorological agency (KNMI). Developed an Automated Weather Observing System (AWOS/ASOS) platform, for use by the FAA & NOAA in over 600 airports in the United States and other airports worldwide.

Responsibilies included:
○ Collaborate with team and architects to create REST and GraphQL backend APIs, written in Go
○ Develop AWS-based Kubernetes infrastructure by creating Kong and KNative API services and maintaining internal Helm charts
○ Create a platform for user-created "dashboards", displaying live and historical measurement data with various widgets.
○ Implement weather algorithms and sensor drivers in C++, based on customer-provided specifications
○ Create websocket RPC APIs to integrate a Vue frontend with a C++ backend
○ Lead standup meetings and sprint reviews as a backup scrum master

Notable achievements:
○ Added our platform's first GraphQL-based API, used to subscribe to incoming data events. Care was taken to ensure that clients of this "highly-available" API received events even in the case of Kubernetes node failure and that the API worked with existing KNative services and Kong ingress.
○ Created a framework for creating VT-220 terminal UIs, used by our legacy AWOS application. This framework used a delcarative component-based architecture, similar to Vue or React, which lowered the barrier of entry for our frontend developers.
○ Created a programmatic schema-driven UI for editing our application's configuration. This allowed users to edit config using a web page with real-time validation, an improvement over editing a yaml file and attempting to run the app. Defining a configuration schema simplified parsing & validation in the C++ backend, and allowed sharing config with our Typescript frontend.

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

Contracted with My Financial Foundations, LLC to build their insurance and financial services platform, consisting of:
○ Client-facing forms and general insurance information
○ A system for insurance agents to track client progress, analyze data, and generate PDF reports.
○ Editable content with NetlifyCMS, payment processing using Stripe, and infrastructure through AWS (Amplify, Cognito, Lambda, and DynamoDB).

Shingo Institute   **Logan, UT**
Senior Developer   *Dec 2017–Apr 2091*

Developed and maintained an international event portal used by over 27 affiliate companies, and:
○ Supported back-end API systems written in Node.js, cloud virtual servers, and public web pages
○ Containerized microservices and web-applications using Docker
○ Wrote automated unit and integration tests to enable continuous application deployment
○ Refactored a GRPC and microservices backend to a monolithic architecture
○ Mentored a junior developer through code reviews, standups, and training

Computer skills

Web Tech: Vue.js, React, HTML, CSS, SASS   **Databases**: PostgreSQL, MySQL, Redis, FoundationDB
Languages: Typescript, C++, Golang, Python, Rust   **DevOps and Tools**: K8s, Helm, Git, Linux, POSIX sh