



## SOFTWARE ENGINEERING INTERNSHIP OPPORTUNITIES

### ABOUT US:

[Benchmark Labs](#) is a venture-backed start-up working on improving weather forecasts for the agricultural and energy sectors. We are one of the six companies selected by [Nextview's Everyday Economy](#) accelerator, we are part of The Maritime Alliance's [BlueTech Incubator](#), [Plug and Play's Insurtech Batch 8](#), and the [Southern California Energy Innovation Network \(SCEIN\)](#).

We work on providing tailored forecasts for specific locations around the globe by using publicly available datasets, information from IoT sensors and novel machine learning techniques. We believe that we need to build-upon traditional weather forecasting approaches that divide the world in grids but are not suited for making asset-specific decisions, as all the points inside of a grid receive the same information.

Our team is committed to helping growers feed the world and to reduce water and energy waste. Our relationships with our customers and team members are governed by integrity, trust, honesty, professionalism, and open communication. We operate in an environment defined by collaboration and continuous improvement.

### JOB DESCRIPTION

Benchmark Labs is looking for talented and motivated Backend & Frontend Engineers with solid Computer Science and Python Programming fundamentals for our weather forecasting team.

Our software as a service (SaaS) platform provides in-situ weather forecasts for specific locations around the globe. Our goal is to use water and energy resources more effectively by reducing the risk and uncertainty of weather forecasts, often needed in agricultural, wind and solar farms operations.

As a Software Engineering intern, you will be responsible for designing, building, testing and deploying new products and services in a fast-paced, iterative development environment.

### **What You Will Do:**

- Back-end/Platform Services – Large-scale distributed services for applications and data management. We use predominantly Python/IPython code. You will work primarily on the back-end services that support our weather forecasting engine, the reporting system and our new the mobile/web interface.  
To do so, you will rely on AWS infrastructure. You will also assist with the design and implementation of a novel system architecture that will support 24/7 ingesting of IoT sensor data via APIs, system operation and reporting.
- Front-end/Mobile – Mobile application development for both the iOS and Android platforms using Flutter and Java.
- Data Analytics – Our forecasts need to be benchmarked versus publicly available datasets. We use python-based visualization tools and statistical packages. We welcome your suggestions to make our visualizations more appealing.

### **Basic Qualifications:**

- Enrolled in a degreed program in a technical or STEM related field
- Knowledge of Python
- Knowledge of software engineering, cloud computing and/or server-side Internet technologies

### **Preferred Qualifications:**

- Curiosity: Intellectual drive to learn
- Methodical: Great debugging and reasoning skills
- Drive: A desire to work on hard problems
- Passion: Passionate about helping our planet by using water and energy resources more effectively.
- Stellar academic record or previous work experience
- Familiarity with command-line tools on a Unix shell

### **What We Offer:**

You will work closely with leadership to develop and test new products. Our team includes Climate Scientists, Environmental Scientists, Software Engineers, and Business development specialists.

- We offer the possibility of doing this internship remotely. Before COVID-19 we were used to Slack, Google Meet, Zoom and other video-conference tools to communicate with other team members across 3 different time-zones.
- You'll work remotely or from our UTC office, where large common areas and open floor plans fuel collaboration.
- We have available AWS, Microsoft Azure and Google Cloud Credits to prototype, test and deploy our solutions.
- You'll get one-on-one mentoring from the co-founders.
- You'll have the opportunity to work on real projects!
- You will have the opportunity to have a direct impact on the company.
- You will have access to the webinars, talks and technical presentations done by our company accelerator partners (TMA, Plug and Play, SCEIN, and Nextview Ventures).

#### **To apply for internship**

If interested, please send a copy of your resume and a brief paragraph explaining why you would like to participate in this opportunity to [info@benchmarklabs.com](mailto:info@benchmarklabs.com) - Use "**Software Engineering Internship**" in the title of your email. Thank you for your interest!