

# SOPHIA BOGERT

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## Education

**University of Southern California, Viterbi School of Engineering** – Los Angeles, CA May 2023

*Bachelor of Science, Computer Science*

- Coursework: Algorithms & Theory of Computing, Principles of Software Development, Data Structures & Object-Oriented Design, Embedded Systems, Linear Algebra & Linear Differential Equations, Information Security

## Skills

**Programming Languages** – Python, C++, Javascript, HTML, CSS, Java, C

**Software** – Google Cloud Services, Amazon Web Services, Firebase, Git/GitHub, Docker

**Language** – English (Native), Spanish (Fluent)

## Projects

**Premix Oil Calculator Website (Python, Javascript, HTML/CSS)** June 2022

- Optimized the production process at Sunderstorm by building a flask website hosted on Firebase with a backend deployed with Google Cloud Build and Run
- Calculated product measurements using linear algebra, and created pdf files with the resulting data in tabular form using Python

**Invoice Converter (C#, Python)** July 2022

- Built a desktop application to scrape invoice table data and export the parsed data to the company ERP software
- Learned advanced pdf scraping techniques in both Python and C# to optimize the scraping process

**Naive Bayes' Classifier (C++)** May 2021

- Created a simple Naive Bayes' Classifier to take in files of data for training, and calculate probability for classifications of objects based on given descriptions

**Temperature Sensor (C)** May 2021

- Built a temperature sensor and warning device using an Arduino, with software to create a state machine to monitor and respond to temperature changes

## Internships

### Systems and IT Intern

**Sunderstorm Inc.** – Van Nuys, CA

- Created a pdf scraping desktop application, and a Flask web application to optimize the administrative and production processes within the company
- Introduced a multitude of integrations between Slack, Acumatica, and various other 3rd-party APIs by creating Slack apps using AWS

## Leadership & Involvement

**University of Southern California** – Los Angeles, CA

August 2019 – January 2022

*Member, Division 1 Women's Rowing Team*

- Elected Sophomore and Junior Class Representative by teammates to represent each class and improve team culture in Team Leadership Council, 2020-2022
- Elected Trojan Athletic Senate Member by coaching staff to represent women's rowing in Trojan Athletic Senate meetings, 2019-2020