SOPHIA BOGERT

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Education

University of Southern California, Viterbi School of Engineering – L.A., CA   December 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