SOPHIA BOGERT

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Education

University of Southern California, Viterbi School of Engineering   December 2023
Bachelor of Science, Computer Science
Minor: Digital Entrepreneurship
- Relevant coursework: Computer Graphics, Video Game Development, Product Design, Linear Algebra & Linear Differential Equations, Information Security, Operating Systems

Skills

Programming Languages – Javascript, HTML, CSS, Python, C++, Java, C, C#
Software/Frameworks – React, Vue, Flask, Amazon Web Services, Firebase, Git/GitHub, Docker

Projects

MoveIntel Website (Javascript)   December 2023
- Continued work from previous teams on development of a large website designed to help with physical therapy, managing data with Firestore and AWS S3, using a VueJS framework

Parkour's Edge (C++)   November 2022
- Built a parkour video game using object-oriented programming with SDL library to employ actor parenting and fully implemented game physics

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 using Python

Naive Bayes' Classifier (C++)   May 2021
- Developed a simple Naive Bayes' Classifier to take in files of data for training, and calculate probability for classifications of objects based on given descriptions

Internship Experience

Software Development Intern   June 2023 – August 2023
Lockheed Martin – King of Prussia, PA
- Rebuilt a program's website that provides live status of weather satellites around the world leveraging data from a Microsoft SQL database, moving site from ASP.Net framework to React
- Redesigned the look and feel of new website to provide a better user experience

Systems and IT Intern   June 2022 – December 2022
Sunderstorm Inc. – Van Nuys, CA
- Designed a pdf scraping desktop application, and a Flask web application to optimize administrative and production processes within the company
- Introduced a multitude of integrations between Slack, Acumatica, and various other 3rd-party APIs by building Slack apps using AWS

Leadership & Involvement

Women's Rowing Team   August 2019 – January 2022
Division 1, University of Southern California
- 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