Sofija Dimitrijevic

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EDUCATION

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, SAN LUIS OBISPO   September 2022 - Present

B.S. Computer Science, College of Engineering, GPA: 3.7, President's List 2022-23

- **Relevant Courses** (through Fall 2023): Data Structures, Object-Oriented Programming in Java, Introduction to Computer Organization, Linear Algebra, Discrete Structures, Systems Programming
- **Languages**: Python, Java, C, HTML, CSS
- **Tools**: VSCode, IntelliJ, PyCharm, Valgrind, Pandas, GIT, github, Figma

EXPERIENCE

SMARTNEWS - 291 ALMA ST, PALO ALTO, CA   June 2020 - August 2020

SOFTWARE ENGINEER INTERN

- Collected training data and researched/presented various applications of the BERT deep learning model to develop a pipeline AI news summarization project.
- Worked under mentorship of Edward Y. Chang (Adjunct Professor, Stanford CS Department)

PROJECTS

AUTOMATING SPOTIFY DISCOVER WEEKLY PLAYLIST   Summer 2023

- Followed *Sysnation* YouTube tutorial on integrating Spotify Oauth into a Python project and automate saving a user's Discover Weekly playlist using the Spotify API. Created HTML and CSS files for a login page.

OBJECT-ORIENTED PROGRAMMING IN JAVA CLASS   Winter 2023

- **Forest Simulator:** Refactored a Java forest simulator, adhering to Object-Oriented design principles. Eliminated duplication and enhanced maintainability. Integrated additional interactive features and incorporated A* pathfinding algorithm, going beyond the basic requirements of the project.

DATA STRUCTURES CLASS   Fall 2022

- **Huffman Encoding:** Created a lossless file compressor that serializes and deserializes files using a Huffman tree based on character frequency. Implemented in Python.

LEADERSHIP & CAMPUS INVOLVEMENT

AI For Search and Rescue Student Researcher   September 2023 - Present

- Working on the machine learning team under Professor Franz Kurfess at Cal Poly to help develop machine learning models and related computational methods in support of Search and Rescue missions.

WOMEN INVOLVED IN SOFTWARE AND HARDWARE   September 2022 - Present

TECH OFFICER   September 2023 - Present

- Planning technical events throughout the year, such as workshops, group projects, hackathons, 3D printer events
- Helping come up with technical and resume-building events that would benefit our members
- Advertising different hackathons and other hands-on tech workshops and events

COMPUTER SCIENCE ARTIFICIAL INTELLIGENCE CLUB MEMBER   September 2022 - Present

- Attending meetings to learn more about AI tools and how to use them as a software developer.