

# 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

- **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.