

Sofija Dimitrijevic

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EDUCATION

California Polytechnic State University, San Luis Obispo Sep. 2022 – Jun. 2027
B.S./M.S. in Computer Science with AI/ML Concentration, Minor in Linguistics GPA: 3.7

- Dean's List & President's Honor List (Fall 2022–Fall 2024, Spring 2025); SWE Scholarship Recipient 2025
- Relevant Coursework:** Natural Language Processing, Machine Learning, Operating Systems, Software Engineering, Database Systems, Distributed & Parallel Computing, Intro to Computer Security, Computer Networks, Data Structures & Algorithms, Object-Oriented Programming, Systems Programming

TECHNICAL SKILLS

Languages: Python, Java, C/C++, C#, SQL, MATLAB, JavaScript, TypeScript, HTML/CSS, R, Racket
Frameworks/Tools: NLTK, spaCy, Hugging Face, PyTorch, TensorFlow, scikit-learn, Pandas, NumPy, Matplotlib, Optuna, SciPy, CUDA, .NET, WPF, AsyncIO, MCP, React, Node.js, Express, MongoDB, Git, Docker, Figma, Jupyter Notebook, Google Colab

EXPERIENCE

Software Engineering Intern Jun. 2025 – Sep. 2025
HP Inc. Houston, TX

- Designed and deployed an **AI-powered telemetry service** with a Random Forest model, **boosting prediction accuracy by 50%** and reducing hardware validation costs.
- Built a C#/.NET desktop client with IPC messaging for **real-time inference at scale**, enabling deployment across thousands of devices. Created **modern UI** using WPF and Caliburn.
- Integrated CI/CD pipelines and automated benchmarking, cutting validation time by **300%** and improving reproducibility across teams.

NLP Student Researcher Aug. 2025 – Present
Cal Poly College of Engineering San Luis Obispo, CA

- Collaborating on the CalMatters AI4Reporters project to generate AI-driven tipsheets that summarize legislative proceedings. Applying NLTK and spaCy to quantify newsworthiness and improving named-entity recognition accuracy through custom feature engineering.

PROJECTS

Spotify Analyzer & Recommender | *Python, scikit-learn, Pandas, Matplotlib* Mar. 2025

- Processed **7M+ Spotify streaming records** from 54 users (2012–2025) to detect user-specific “music niches.”
- Optimized similarity metrics (cosine, Pearson) and neighborhood tuning to **improve recommendation accuracy by 35%**, producing highly personalized artist and song suggestions.

Gather: Inventory Management Web App | *React, TypeScript, REST API* Apr. 2024 – Jun. 2024

- Built full-stack inventory management system with REST APIs and CRUD features in a 5-person Agile team.
- Refactored backend into modular services, reducing code duplication by **50%** and supporting CI testing pipelines.

Moment: Burnout Prediction Web App (Hackathon) | *TensorFlow, scikit-learn* Jan. 2024

- Developed ML models for predicting hospital staff burnout with **80% accuracy**; collaborated on web app prototype.
- Delivered prototype in 24 hours as part of a 5-person team; won **Best Design Award** out of 15 competing teams.

ADDITIONAL EXPERIENCE

Women Involved in Software and Hardware (WISH) Sep. 2022 – Present
Vice President (Current), Technical Director (Previous) San Luis Obispo, CA

- Overseeing strategy and operations for 300+ member organization; managing cross-functional officer board of 20.
- Led team to deliver 20+ weekend technical workshops and build days annually, fostering **technical collaboration** and onboarding new members into software engineering practices and hardware principles.

Society of Women Engineers (SWE) Sep. 2022 – Present
Scholarship Recipient, Active Member San Luis Obispo, CA