Amelie Cibulka

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EDUCATION

University of California, Berkeley (2022-2026)

Berkeley, CA

- Pursuing BA in Computer Science, Minor in Data Science
- GPA: 3.97

SKILLS

Technical Experience:

- Experienced in Python, Java, C, SQL, C++, RISC-V Assembly
- Full Stack Experience: HTML, CSS, JS, MongoDB, React
- Experience with Object-oriented programming, Source control (Git), Testing
- Microsoft Office (Excel), Google Sheets

General:

- Mathematics and Computer Science Tutoring
- Employee Training & Leadership

COURSEWORK

University of California, Berkeley

- CS61A: Structure and Interpretation of Computer Programs
- CS61B: Data Structures and Algorithms
- CS70: Discrete Mathematics and Probability
- DATA100: Principles and Techniques of Data Science
- CS61C: Machine Structures
- CS188: Artificial Intelligence
- CS168: Internet Architecture and Protocols

PROJECTS

Language Classifier

UC Berkeley

- Used **Python** with **pytorch** to build a Recurrent Neural Network
- Processed a batch of input words by letter and returned the most likely language classification for each word
- Achieved 90% accuracy on test set

Spam or Ham?

UC Berkeley

- Using **Python**, built a classifier predicting whether an email was spam or not with 89% test accuracy
- Processed and analyzed real-world data using **sklearn** libraries
- Trained and validated a logistic regression model

WordNet

UC Berkeley

- Using **Java**, built complex data structures designed to traverse and organize huge datasets of words and their hyponymns/hypernyms
- Implemented features allowing for user input, used **JavaScript**, **HTML**, and **CSS** to build an interactive interface and display results in a web browser

EXPERIENCE

Computer Science Academic Intern, Mathematics Tutor (2018-Present)

Santa Rosa, CA and Berkeley, CA

- 2 years of experience as an official Tutor for CS courses at UC Berkeley (61A, 61B)
- 3 years of volunteer coaching for national MathCounts competition
- Created original educational material to foster learning and problem solving skills
- Emphasized understanding rather than rote memorization