

DOROTHEA FRENCH

dorothea.french@colorado.edu ◇ (720)-234-2391 ◇ <https://github.com/DorotheaF> ◇ Boulder, CO

EDUCATION

Mechanical Engineering, BS	GPA: 3.92/4.00
Chinese Language and Culture, BA	Graduating May 2022
Computer Science, Minor	
Linguistics, Minor	
University of Colorado Boulder	
Dean's List (all semesters), CU Esteemed Scholar-Sewell, Global Engineering Program, Maymester in China	

SKILLS SUMMARY

Computing Languages	C++ & Java & Python (proficient), Scala & Javascript & MATLAB (basic)
Software & Tools	Solidworks (CSWA Certified), Meteor (React, Vue, Node.js, MongoDB), JIRA
Technical Skills	Full stack web development, software development, manufacturing & electronics
Languages	Mandarin Chinese (Advanced), Spanish (Intermediate), Thai (Beginner)
Transferable Skills	Research experience, Agile and DevOps experience, excellent written and oral communication, intercultural communications, critical thinking, logistics

ENGINEERING EXPERIENCE

- | | |
|--|--------------------------------|
| Natural Language Processing (NALA) Group - Independent Study | December 2020 - Present |
| <ul style="list-style-type: none">Trained several bilingual language models and compared their performance on English test sets, to learn about how grammatical knowledge from a primary language affects performance on a secondCreated an application to scrape and process targeted subtitles from YouTube videosWorked with a cross-disciplinary team to develop research and test methodologies, and analyze resultsWrote research paper, and submitted to EMNLP | |
| Laboratory of Atmospheric and Space Physics - Web Development Intern | Oct. 2020 - April 2021 |
| <ul style="list-style-type: none">Back-end web and systems development, using python and scalaCollaborated on publishing and maintaining python package to detect anomalies in space data sets | |
| Web Development at Northrop Grumman - Technical Intern | June 2020 - July 2020 |
| <ul style="list-style-type: none">Developed an interactive planning poker web app for agile teams, using the full-stack MeteorJS frameworkCoordinated virtually with agile team members to work efficiently and keep things organized | |
| Autonomous Robotics and Perception Group - Undergraduate Member | October 2019 - May 2020 |
| <ul style="list-style-type: none">Programmed a POS tagger for use in multi-modal information processing research for autonomous robotsHelped clean and maintain Amazon Mechanical Turk survey for human feedback on bi-modal data setsDesigned, tested, and manufactured radio relays and their deployment mechanism for DARPA Sub-T challenge autonomous robots | |
| Chinese Article Grader and Reading Assistant | September 2019 - November 2019 |
| <ul style="list-style-type: none">Built program to grade an article's reading level and allow users to create a library of articles and vocabularyBuilt user interface for Windows | |
| Basic Natural Language Generator | April 2019 - May 2019 |
| <ul style="list-style-type: none">Built natural language processor that identified bigrams in a given document and used them to generate text | |

ADDITIONAL EXPERIENCE

Summer 2020 Design Intensive - Planning Committee Member	May 2020 - June 2020
Society of Asian Scientists and Engineers - Planning Committee Member	October 2018 - Present