

Chloe Dorst

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EDUCATION

MISSOURI S&T

B.S. CHEMICAL ENGINEERING

May 2021 | GPA: 3.79 / 4.0

COURSEWORK

Thermodynamics I & II

Transport Phenomena

Numerical Computing

Separations*

Process Design*

Reactor Design*

(*course to be taken Spring 2020)

SKILLS

PROGRAMMING

Over 5000 lines:

Java • Shell • JavaScript • Matlab

OCaml • Python • Rails • \LaTeX

Over 1000 lines:

C • C++ • CSS • PHP • Assembly

Familiar:

AS3 • iOS • Android • MySQL

EXPERIENCE

CHEMICAL ENGINEERING INTERN

FIKE CORPORATION | COMBUSTION TESTING LABORATORY

January 2019 – August 2019 | Blue Springs, MO

- Created and implemented hazardous material handling procedures including a new chemical hygiene plan
- Developed documentation for ISO 17025 accreditation
- Researched new methods in dust combustion testing
- Collaborated with engineers and lab technicians to understand and solve problems during testing

WRITING CENTER CONSULTANT

MISSOURI S&T | WRITING CENTER

August 2018 - present | Rolla, MO

- Worked on the YouTube Captions team in primarily vanilla Javascript and Python to plan, design and develop the full stack implementation of a new framework to add and edit Automatic Speech Recognition captions.
- Created a backbone.js-like framework for the Captions editor.
- All code was reviewed, perfected, and pushed to production.

CELLO INSTRUCTOR

August 2015 – December 2018 | Manhattan, KS & Rolla, MO

- Phabricator is used daily by Facebook, Dropbox, Quora, Asana and more.
- I created the Meme generator, the entire Lipsum application, ported Tokens to different apps, fixed many bugs and more in PHP and Shell.
- Led a team from MIT, Cornell, IC London and UHelsinki for the project.

RESEARCH

CORNELL ROBOT LEARNING LAB | HEAD UNDERGRAD RESEARCH

Jan 2014 – Present | Ithaca, NY

Worked with **Ashesh Jain** and **Prof Ashutosh Saxena** to create **PlanIt**, a tool which learns from large scale user preference feedback to plan robot trajectories in human environments. Publication submitted.

CORNELL PHONETICS LAB | HEAD UNDERGRADUATE RESEARCHER

Mar 2012 – May 2013 | Ithaca, NY

Lead the development of **QuickTongue**, the first ever breakthrough tongue-controlled game with **Prof Sam Tilsen** to aid in Linguistics research. Publication submitted.

SOCIETIES

2014	top 12%ile	Tau Beta Pi Engineering Honor Society
2014	National	The Global Leadership and Education Forum (tGELF)
2012	National	Golden Key International Honor Society
2012	National	National Society of Collegiate Scholars