

Joshua Paup

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EDUCATION

University of Colorado - Boulder

Bachelor of Arts in Computer Science and Mathematics

Boulder, CO

August 2017 – December 2020

WORK EXPERIENCE

Laboratory for Atmospheric and Space Physics

Undergraduate Software Engineer

Boulder, CO

April 2020 – Present

- Currently working as a front-end developer with assignments to the *Space Weather Portal* and *LISIRD* webpages, both of which host a collection of 'space weather' and 'solar irradiance' datasets respectively along with several information visualization tools.
- Use HTML, (S)CSS, and TypeScript with the Angular 8 framework to develop webpages, along with JavaScript and the D3.js library to create information visualization tools.
- **Tools and Methods:** HTML, SCSS/SASS, JavaScript, TypeScript, Angular, Agile, Jira, Bitbucket

University of Colorado - Boulder

Professional Research Assistant

Boulder, CO

May 2020 – August 2020

- Worked on the DataArc Research Tools (DART) project, a set of visualization search tools to show the connections between North Atlantic archaeology, climate science, paleontology, and literature datasets.
- Used Tableau to create initial prototype visualizations and assisted with the development of several Jupyter Notebooks to create character profiles of datasets and show 'connectedness' between dataset networks.
- **Tools and Methods:** Python, Jupyter Notebooks, Tableau, GitHub

SKILLS AND RELEVANT COURSEWORK

Languages: Python (Intermediate), C/C++ (Intermediate), JavaScript (Intermediate), TypeScript (Beginner)

Database: MySQL, PostgreSQL, MongoDB, Cassandra

Tools and Technologies: HTML, CSS/SCSS/SASS, D3.js, Node.js, Angular 8+, Figma Prototyping, Tableau, Jupyter Notebook, Linux, Windows, MacOS, Microsoft Office Suite, L^AT_EX

Coursework: Data Structures, Algorithms, Database Systems, Information Visualization, Software Methods and Tools, Human-Computer Interactions, Artificial Intelligence, Natural Language Processing, Coding & Cryptography, Probability Theory, Mathematical Statistics, Numerical Analysis, Operations Research

UNIVERSITY INVOLVEMENT

CU Bee Club (*Co-Founder, Vice President for Administration*): Co-founded a conservation group with a focus on the education and awareness of local pollinators and bees at the University of Colorado - Boulder.

CU Math Club (*President*): Served as president of CU Math Club. Worked to host biweekly social hours for all mathematics affiliates and assisted club advisors with scheduling/planning guest lectures.

PROJECTS

A Boring Analysis | *HTML, SCSS, JavaScript, TypeScript, Python, Angular 9*

August 2020 – Present

- This project is my attempt at a data journalism website that ties in my interests between front-end development, information visualizations, and data analytics into one single project.
- *Expected date of completion - November 2020*

Personal Website | *HTML, SCSS, JavaScript, TypeScript, Angular 9*

August 2020 – Present

- This project is an update to my personal website that serves to be an interactive version of this resume that showcases my work and personal interests.
- *Expected date of completion - November 2020*