

Julian Mueller

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EDUCATION

University of Michigan

Bachelor in Computer Science

Ann Arbor, MI

Aug. 2021 – April 2025

EXPERIENCE

Software Engineer

Jan. 2022 – April 2022

Weather Balloon Team

Ann Arbor, MI

- Executed a weather balloon launch with other students in order to collect data on our atmosphere
- Programmed scripts in Python and MATLAB which organized temperature, pressure, humidity, and GPS data
- Constructed and launched a payload that completed a two hour flight fifteen miles high into the air

Front-End Developer

Jan. 2021 – Present

Mozilla

- Contributed over 900 approved submissions across Mozilla's open source platforms
- Assisted in making Firefox more accessible via Pontoon UI localization
- Collaborated with other open source contributors to refine submissions

Facility Coordinator

May 2023 – Aug. 2023

City of Farmington Hills

Farmington Hills, MI

- Leads a group of over twenty city attendants across multiple city facilities
- Collaborates with coworkers in order to maximize building and event efficiency
- Assesses and adjusts the schedule of city attendants

PROJECTS

Dungeon Crawler Video Game | *Unity 2D, C-Sharp, Piskel*

Feb. 2023 – July 2023

- Created a rogue-like dungeon crawler game that is inspired by the Legend of Zelda
- Implemented random level generation through a crawler script in C-Sharp
- Designed characters and items in Piskel and animated them through Unity

Alpha Centauri | *Python, MATLAB, JSON, HTML, Solar Resource Data API*

March 2023 – April 2023

- Developed a program that analyzes the effects of rising temperatures on solar radiation
- Collected temperature data using Python's BeautifulSoup package and the Solar Resource Data API
- Created graphs that visualized the program's findings with MATLAB

Custom SQL Database | *C++*

Feb. 2023 – March 2023

- Implemented a relational database in C++
- Utilized hash maps that support table joins, indexes, and various queries through an interactive shell

Airbnb Scam Detector | *Python, HTML*

March 2023 – April 2023

- Constructed a program which scrapes Airbnb for suspicious listings
- Utilized a HTML parser in order to detect faulty policy numbers on Airbnb listings

TECHNICAL SKILLS

Course Highlights: Data Structures and Algorithms, Computer Organization, Computer Science Theory, Discrete Math, Linear Algebra, Multivariable Calculus

Languages: C/C++, C-Sharp, Python, MATLAB, HTML, XML, SQL, CSS

Developer Tools: Git, VS Code, Visual Studio

Libraries: STL, NumPy, Matplotlib, BeautifulSoup4