

**108 Erica Drive
Georgetown, KY**

[linkedin.com/in/brennen-green-00491015a/](https://www.linkedin.com/in/brennen-green-00491015a/)

BRENNEN GREEN

+1 (859) 312-0852

brennengreen@outlook.com

www.brennengreen.dev

EDUCATION

Lexington, KY

University of Kentucky

Aug. 2019 – May 2023

- **Major:** Materials Science and Engineering, B.S. (GPA: 4.0)
- **Coursework:** Programming in C/C++, General Chemistry 1, Spring 2020: Physics 1 and Materials Science

SKILLS

- **Technical:** JavaScript, Python, PHP, Linux, MacOS, Go / GoLang, HTML / CSS, Git, Java, Data Visualization, Unreal Engine 4, Data Pipelines, Systems Design, C / C++, Web Design Fundamentals

EMPLOYMENT

Software Engineer

University of Kentucky

May 2019 – PresentDepartment of Communication (comm.uky.edu)

- Improved faculty data comprehension by creating a data visualization web app in PHP, JavaScript and SQL
- Created stunning visualizations in Tableau to demonstrate the power of the software to staff members
- Automated job search process by using Python to parse new applicants, saving 2 hours daily
- Integrated Docker into applications department wide while co leading a project to revitalize department dev ops
- Leveraged Knowledge of MVC Architecture, Web Debugging, Docker, Dev Ops

Bioinformatics Research Assistant

University of Kentucky

Aug. 2018 – Dec. 2018

- Reduced dependency on legacy-based platforms by integrating Linux Fedora 28 into the lab infrastructure
- Spearheaded the development of a python implementation of the open source software “BioFabric”
- Used Python to analyze sample genome datasets and visualize them using BioFabric
- Leveraged Knowledge of System Design, Data Science, Debugging, and Visualization.

SOFTWARE PROJECTS

GoList (Craigslist Web Scraper in Go): <https://github.com/brennengreen/golist>

- Implemented a web scraper that scrapes posting data from a craigslist category
- Used Golang's PostgreSQL implementation to categorize all postings in a SQL database
- Maintained an active server for utilizing the web scraper and database using Heroku
- Used Twilio to notify me whenever an item is posted for less than the average price of similar items
- Utilized: Algorithms, SQL / PostgreSQL, Databases, Heroku, Twilio, Go / GoLang, and Web Scrapping

Ditto (Discord Media Bot Written in Python): <https://github.com/ditto-dev-team/ditto>

- Used Python to design the backend to safely access the bot's file structure and store/access media files
- Used Heroku to properly sense when the bot is in use as to save time and money when hosting the bot
- Administrated the version control over the bot to promote proper and safe collaboration amongst the team
- Utilized: UNIX File System, Python, Heroku, Git Version Control, Project Management

Extra-Curricular

UK Solar Car Team – Electrical Team Member:

- Revision and design of important circuit boards using Eagle PCB Design software
- Researched Li-Ion battery design and chemistry to help the team make the best decision to power our car
- **Future projects:** Designing the electrical system of our new car, Gato del Sol VII. Designing a sustainable solar powered trailer to pull our car to events

Energy Conversion/Storage Research Lab: Recently joined Dr. Cheng's research group that focuses on Li-Ion battery development partnered with General Motors. Lab activities include cell construction, materials testing, and structural analysis