Dylan Patch

(303)-993-9355 | dpatch15@gmail.com | Louisville, CO, 80027
https://www.linkedin.com/in/dylan-patch-ba7574b9/ | https://thatpatchguy.github.io/thatpatchguy/index.html

I am a zealous, multi-talented data analyst. In search of an opportunity in which I can combine my knack for technical skills with my passion for the outdoors, travel, or music. Excited to work to increase sustainability, accessibility, and efficiency through the beauty of data.

TECHNICAL SKILLS

Tools: Microsoft Excel, VBA, Python, Pandas, NumPy, SQL, JSON, HTML/CSS, Beautiful Soup, JavaScript, D3.js, Plotly, Leaflet, R, Tableau, Apache Hadoop, Machine Learning, GitHub, Big Data, C++, ArcGIS
Databases: MongoDB, Postgresql, MySQL
Other: Flask, Git, Command Line

SOFT SKILLS

Language Skills: Spanish (Advanced) | Dutch, Swedish, Mandarin (Basic)
Other: Public Speaking, Leadership, Management, Teamwork, Project Development, Non-Profit Experience, Sales

PROJECTS | RELEVANT EXPERIENCE

Basement Producers Toolkit | 2021
Creation of a web tool in order to help musicians visualize what a chord needs to look like to translate that into playing a midi keyboard. One side of the tool has the ability to select 4 chords from dropdown lists and play through the progression. This visualization can help musicians lock the progressions into their muscle memory faster than without. It also has a tool to select a song from a list of 100 top songs scraped from a separate website and then loads those chords into the visualization. The second part of the tool is a chord prediction tool, though music is a creative medium there are rules and patterns that can help architect a quality song. Through using a neural network and just under 9000 chord progressions from popular songs, this tool can take in the first three chords in a progression and suggest options for a fourth to follow it.
Key tools: Python, BeautifulSoup, Flask, SKLearn, Javascript, Tensorflow, Plotly, HTML/CSS, Heroku.
GitHub Repository: https://thatpatchguy.github.io/thatpatchguy/bpt.html

Up with People Tour Exploration | 2021
Working with the Non-profit Up with People, an organization I have worked for in the past, I created a tool to help alumni of the program track where their tour went while travelling and volunteering abroad. This required scraping and cleaning of data, using google API to find coordinates of cities, and plotting the tour destinations through Leaflet.
Key tools: Python, Javascript, Leaflet, APIs, BeautifulSoup, HTML/CSS
GitHub Repository: https://thatpatchguy.github.io/thatpatchguy/uwp.html

Air Quality vs. Policy Decision | 2020
An exploratory project analyzing the relationship between government level policy decisions such as investment in electric cars and public transportation on the air quality of the local area. This project required combining different datasets from all sorts of different sources, studies, and APIs. Due to the countless factors that do factor into the local air quality there could not be any proven correlation between the
Key Tools: Python, Pandas, MatPlotLib, Numpy, HTML/CSS
GitHub Repository: https://thatpatchguy.github.io/thatpatchguy/aqIndex.html

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EXPERIENCE

REI, Denver, CO
Retail Sales Specialist   Aug 20 - Jun 21

- Problem solved the most mutually beneficial outcome in new situations every interaction at customer service.
- Always learning attitude led to opportunities to be trained in a number of different departments at my short time there.
- Consistently ranked in the top 10% of salespeople in membership sales.
- Took on many additional projects, such as creation of a troubleshooting team for the technology at frontline.

Up with People, Road Position
External Relations Manager   Jul 19 - Mar 20
Admissions Representative   Jul 18 - Mar 20

- International work experience in 11 countries working to sell a $17,000 gap year experience to potential participants
- Public Speaking and Workshop Facilitation for groups of up to 200 people.
- Implemented Coaching and Leadership training for my staff and interns.
- Assisted in the logistical planning of meals, living situations, and activities for 80 participants at a time over 5-month tours.
- In my first tour managing the Admissions team we broke the company all time US tour application record.
- Nature of the non-profit and travelling required lots of solution-oriented thinking to new problems almost every day.
- Advanced to a management position much quicker than the normal Up with People career path

Parkifi Inc (Acquired by Dish), Denver, CO
Software Engineering Intern   May 15 - Sep 15 & May 16 - Sep 16

- Worked largely to enhance the usability of user interface components using Javascript, Ruby, and PHP.
- Small, start-up structure gave me an opportunity to have a hand in everything from soldering circuit boards to project management.
- Experience working with Agile methodology.

Seattle Pacific University Library, Seattle, WA
Tech Lead   Aug 17 - Jun 19
Tech Desk Consultant   Feb 15 - Aug 17

- Troubleshot problems on a wide variety of operating systems and programs.
- Responsible for much of the technology in the library such as printers, cameras, and laptops.
- Researched and implemented an in-house system to fix broken Chromebook screens and keyboards to save costs.

EDUCATION

Seattle Pacific University, Seattle, WA
- Bachelor of Science, Information Systems
- Bachelor of Arts, Spanish Studies
- GPA: 3.72 | Cum Laude

Data Analytics and Visualization Executive Education Certificate |2020
A 24-week rigorous Bootcamp program focused on practical technical skills needed to solve data problems. Increased working knowledge in Excel, Python, JavaScript, SQL, Tableau, Hadoop, and Machine Learning.