

Jacob Pawlak

Software Developer & Data Scientist

Experienced Developer with four years of industry work in creating programs, websites, and applications based on specific company or customer requirements. Adaptable, diligent and knowledgeable in the Python Language for desktop programming and data science, and JavaScript for web programming. Data Science skills include collecting data via API calls or web scraping engines, building cloud-based ETL solutions, and building visualization dashboards in Power BI or Tableau.

Work History

2019-03 -
2020-03

Developer

Untitled Firm, Louisville, KY

- Built frameworks for pulling data from Twitter and scraping sentiment data out of tweets and comments. Crafted visualization dashboards in Power BI to model the data collected. An example dashboard is a comparison of stock prices v.s. sentiment scores for the @PapaJohns Twitter handle, and the Papa John's PZZA stock.
- Developed several in-house tech stacks for Twitter, WordPress, Salesforce, and AWS. Some of my favorite and most successful include the Twitter Sentiment Analysis Machine, a WP to Salesforce bridge app, the Alcohol Bottle Image Recognition Tool, and the two web scraper templates built on Python's BeautifulSoup and Selenium libraries.
- Designed and programmed multiple WordPress and Shopify sites for e-commerce clients, many sites were coupled with SEO and digital marketing metrics pixels. My favorites include the Falls City Beer site, the Jack Rudy Cocktail Co. site, and the Appalachian Impact Fund site.

2018-03 -
2019-03

Lead Curriculum Engineer

Interapt, Louisville, KY

- Responsibilities included discovery, development, and maintenance of a custom MERN full-stack curriculum. As I developed this project-based learning core curriculum, it was also my responsibility to develop and critique assessment materials, student application portals (small micro sites), and report all ongoing research to my supervisor.
- During the Summer of 2018 I managed two curriculum interns, guiding them through the process of making our road maps, assessment material, and instructional material. While both of these interns were my responsibilities, both were offered full time positions in both parts of the company (development, and curriculum).

2018-01 -
2020-02

Founder | Director of Mining Operations

Brain Power Mining | Lucille 1, Lexington, KY

- Designed, constructed, and maintained a cryptocurrency mining pool (off campus in my own residence). Over the course of the company, I both hand-built two mining machines, and purchased two pre-built mining machines - all four operated and maintained solely by me.

Contact

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Technical Skills

Python - Language



HTML/CSS/JS - Full Stack



Drupal/WordPress - CMS



MS/Google Suite - Office Suites



Linux/Windows/Mac - Operating Systems



Technical Writing/Documentation - Soft Skills



MySQL/MongoDB - Databases



AWS Platform - Cloud Platforms



Data Visualization and Analysis (Power BI, Tableau)



ETL and Reporting (pySSRS, SSIS)



Task Automation (Crontab, Airflow)



- Constructed all business materials, demos, pitch decks, and source data for the Gatton Entrepreneurship Bootcamp. It was very fulfilling to write out the executive summary, business plan/proforma, liquidation plans and schedules, slide decks for presentations and bar stool pitches, and fiscal projections. BPM was a great conduit for me to practice technical and business writing styles.

Web Developer

University Of Kentucky, Lexington, KY

- Maintained the internal Drupal website for the College of Health Sciences, including helping oversee a site-wide redesign with a local company. A majority of my responsibilities revolved around completing tickets for the college's website, and building/testing new views for internal pages.
- Maintained internal and customer WordPress Sites for the Human Development Institute, during this time my main focus was website accessibility. Several of the department staff had WordPress sites with copy related to their programs and partnerships, my goals were to improve the accessibility of the sites and upkeep the copy and design.

2016-04 -
2018-03

Education

Bachelor of Science: Computer Science

University of Kentucky - Lexington, KY

- Member of the local ACM chapter
- Coursework in Computer Theory, Databases, Algorithm Design and Analysis, Web Programming and Software Engineering
- Competed and placed in numerous regional Hackathons (UofK and UofL).

2014-08 -
2018-12

Bachelor of Science: Linguistics

University of Kentucky - Lexington, KY

- Concentration in Computational Linguistics.
- Coursework in Computational Linguistics, Advanced Morphology, and Formal Semantics and Pragmatics

2015-01 -
2018-12