GABRIELLE BANIQUED

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SUMMARY

A motivated and team-oriented individual with over 1 year of experience working remotely in an Agile environment and 5 years of leadership experience in non-profit organizations. Adept at analyzing and interpreting complex data sets, identifying trends and patterns, and presenting insights to stakeholders in a clear and concise manner. Committed to working closely with team members across departments to achieve common goals and delivering results that meet or exceed expectations.

PROFESSIONAL EXPERIENCE

MENTOR COLLECTIVE, Boston, MA (Remote)
Data Analyst Intern
Jun 2021 - May 2022

- Built custom reporting dashboards using Metabase on top of Postgres database for internal Marketing and Research teams based on stakeholder requirements. Live dashboards measured the effectiveness and user engagement levels of their Email and SMS campaigns. Created documentation summarizing the user engagement levels based on all-time historical records. Presented dashboards and findings during a company-wide demo with all key stakeholders present.
- Hosted technical workshop to demo and teach non-technical employees how to use Metabase, our data visualization tool. In preparation for the workshop, created materials, documentation, modified queries to have custom conditionals, and updated visualizations to be more user-friendly for non-technical users. Following the workshop, answered questions and hosted an open discussion.
- Processed time critical support requests from end users to pull custom data sets in support of day-to-day business functions of the Product and Research teams. Used SQL to query live data commingled with legacy data and structures.
- Created dashboards to visualize historical company performance in collaboration with Team Leads and Stakeholders from Marketing, Research, Engineering, Program Support, and Product teams.
- Following each sprint, demoed dashboards and real-time back end processes to key stakeholders, including end users and project management. Following Agile principles, received feedback, refined existing requirements, and developed iterative improvements.
- Used Google Suite as a project management and sprint management tool.
- Used Asana to log tickets, track bugs, and to manage Sprints, Sprint Boards, Sprint Retrospectives, and Sprint Reviews.

EDUCATION

UNIVERSITY OF MARYLAND COLLEGE PARK, College Park, MD
Bachelor of Science in Computer Science
With a Concentration in Data Science and a Minor in Sustainability Studies
Aug 2018-May 2022
Dean's List Fall 2018, Spring 2021

NON-PROFIT EXPERIENCE

"HOMEBOUND" REGIONAL YOUTH CONFERENCES, Couples for Christ USA
National Event Head
Mar 2022 - Oct 2022

- Responsible for a national team of 60+ youth and 40+ adult coordinators. Developed a team structure to facilitate mentorship and training of young adult leaders from a national to regional level.
- Developed proposals for approval by a national committee for a return to in-person youth conferences while prioritizing the health and safety of attendees and volunteers. Proposals included the in-person regional approach, detailed COVID safety guidelines, and a Gantt chart.
- Led biweekly national check-in meetings for Marketing, Production, Content, Structure, and Event Management committee heads. Delegated and prioritized tasks. Conducted monthly meetings with each set of committee heads - 10 people in total - to monitor task completion and address concerns.

"YOUTH COMMUNICATIONS", Couples for Christ Youth USA (CFCYUSA)
Media Coordinator
Mar 2017 - Aug 2022

- Built, trained, and guided a marketing committee, including photo/video teams, for annual national youth conferences from 2017-2019. Continued to lead and train marketing teams as conferences transitioned to virtual and hybrid formats in 2020-2021.
- Collaborated with national leaders to release statements regarding the COVID-19 pandemic and racial justice issues as they arose in 2020. Designed graphics to accompany statements and distributed materials on social media platforms and email newsletters. Submitted iterations for review to a national committee and made changes as directed.

RECENT PROJECTS

- musicmin.app (*Dec 2022 - Present*)
  - Designed database schema and created Figma mockup to support updated data collection goals. Conducted UI/UX evaluation using Nielsen's Usability Heuristics, prioritized issues by severity, and presented written recommendations to the development team. Currently designing a new UI for the upcoming 2.0 release, incorporating new features.

- Workplace attitudes towards mental health and their impact on employee productivity
  (*Apr 2021 - May 2021*)
  - Collected, transformed, analyzed, and visualized survey data from *Open Sourcing Mental Illness* for the Final Project. (Full Project and Discussion: gabbley.github.io/mentalhealth-productivity).
  - Skills acquired: Data scraping, Data cleaning, Handling missing data, Exploratory Data analysis, Predictive modeling, Trend analysis, Pandas, NumPy, SciKit, and Jupyter/IPython Notebook.

TECHNICAL SKILLS

- **Languages:** Proficient in Java, Python, SQL; Experience with Ruby, R, C++, C, HTML/CSS, Javascript
- **Data Tools:** Pandas, NumPy, SciKit, Apache Spark, Matlab, Metabase, Advanced Microsoft Excel (VBA, Pivot tables, V-lookup, data validation, charting, visualization)
- **Databases:** PostgreSQL, SQLite, MySQL
- **Software and Applications:** Visual Studio Code, Docker, VMWare, Android Studio, Jupyter Notebook, Git, Github, Microsoft Office, Google Suite, Asana, Notion, Slack, Zoom, Filament (PHP)
- **Application Mockup Tools:** Figma, Adobe Photoshop, Canva
- **Other Technical Skills:** Linux/Unix Scripting, UX/UI Design, Agile Software Development

COURSEWORK AND CERTIFICATIONS

- Introduction to Data Science
    - Gained hands-on experience with industry-level data science tools such as Pandas, NumPy, SciKit, Folium, Apache Spark, and Jupyter/IPython Notebook.
    - Collected, transformed, analyzed, and visualized survey data from *Open Sourcing Mental Illness* for the Final Project. Created a Confusion Matrix predictive model to explore if workplace attitudes about mental health influence employee productivity (Full Project and Discussion created in Jupyter Notebook and hosted at gabbley.github.io/mentalhealth-productivity).
    - Skills acquired: Data scraping, Data cleaning, Handling missing data, Exploratory Data analysis, Predictive modeling, Trend analysis, Pattern recognition, Regression analysis, Gradient descent using a variety of datasets (small to large, clean to messy).
- Machine Learning
    - Explored models and algorithms used in Supervised Learning (Decision trees, KNN algorithm, Perceptron, Naive Bayes model, Neural networks, Gradient descent) and Unsupervised Learning (K-means, PCA) on large data sets.
- Database Design
    - Gained hands-on experience with Relational database concepts (The Entity-Relationship Model, Reducing E-R Diagrams to Relational Schemas, Functional Dependency Theory) using sample datasets. Learned transaction management concepts such as concurrency control.
    - Acquired an Intermediate proficiency of SQL (JOIN, CTE, Subqueries, Views, Modifying the database, Functions and procedures) using MySQL databases.
- Human-Computer Interaction
    - Designed and built "Kitchen Kompanion", a mobile application intended to assist its users with food preparation and kitchen organization for a semester-long group project. Developed the application using HTML/CSS and Javascript and managed the project in sprints according to Agile software development principles.
    - Supported User-centered Design Principles by conducting user interviews at each development stage, developing user personas, and designing a user study. Integrated Task-centered Design Principles by developing task scenarios and using these tasks in user interviews and studies.
    - Performed a Heuristic Evaluation of our application according to Neilsen's Usability Heuristics. Detailed each issue, identified which usability rule it violated, assigned a severity rating, and recommended actions to fix the issue. Repeated this process to peer review another group's application.
- Advanced Data Structures
    - Learned the descriptions, properties, and storage allocation functions of data structures (Heaps, Balanced binary trees, B-Trees, Hash tables, Skiplists, Tries, kd-trees, Quadtrees) and algorithms for manipulating structures. Used Java to implement data structures according to specifications, such as storage constraints, runtime efficiency, and the type of data to be stored.
- Design and Analysis of Computer Algorithms
    - Learned about common problems in Graph Theory (Network flow, Independent set, Clique decision). Identified whether problems are Non-Deterministic Polynomial (NP), NP-Complete, or NP-Hard and explored how to solve them using custom algorithms. Practiced proving correctness from a given solution to a problem.
- Certification: IBM Skills Network BI Foundations WITH SQL, ETL and Data Warehousing Specialization (In Progress: Expected Completion Q1 2023)
    - Skills to be acquired: Linux/Unix Scripting, Build and Automate ETL, ELT, and data pipelines using BASH scripts, Apache Airflow, Apache Kafka