Miriam A Berkowitz

Email: miriambrk@gmail.com ▪ **Portfolio: miriamberkowitz.com**
LinkedIn: www.linkedin.com/in/miriamberkowitz ▪ **Github: github.com/miriambrk**

Data analyst analytics/visualization developer with 15 years of full life-cycle software engineering experience, aiming to leverage analytical and leadership skills to guide business operations and decision-making.

WORK EXPERIENCE

Inspire   **Arlington, VA**
Data Analyst   **May 2018 - Present**
- Create business intelligence dashboards to support data analysis for Business Development, Product and Marketing teams
- Respond to ad-hoc data requests
- Develop software to interpret and disseminate data from across the organization
- Automate monthly data calculations in support of Business Development

SKILLS

Technical: SQL, Python, Pandas, Plotly/Dash, matplotlib/Seaborn, MySQL, SQLAlchemy, MongoDB, JSON, HTML/CSS/Bootstrap, JavaScript, D3.js, Leaflet, Git/GitHub, C, Excel/VBA, MS Office, MAC OS

Leadership: project management, oral and written communications, budgets/schedules

EDUCATION

The George Washington University   **Arlington, VA**
Certificate, Data Analytics and Visualization   **March 2018**
Intensive 6-month bootcamp dedicated to data analytics and visualization

Rutgers University   **New Brunswick, NJ**
Bachelor of Arts, Computer Science   **May 1984**
Phi Beta Kappa; Henry Rutgers General Honors Program; GPA: 3.5/4.0

PROJECTS

CitySlip   **February 2018**
- Worked in team of 3 to analyze a city to provide a subjective score and dashboard with interactive graphs for a user to determine whether to move to the city
- Used Python, SQL, Flask, and various APIs to collect and analyze data; used JavaScript, HTML/CSS, D3, Plotly, and Leaflet to create a dashboard and graph the data
- https://zipslip.herokuapp.com

Bacteria BioDiversity Dashboard   **January 2018**
- Used Flask, Python, and Pandas to design an API for a dataset of belly button bacteria
- Used Javascript, Plotly.js, HTML, and CSS to build interactive charts for the dashboard
- https://bb-bio-dashboard.herokuapp.com/

Mission to Mars   **Fall 2017**
- Scraped various Mars-related websites and displayed the data on a website
- Used Python, Flask, MongoDB, BeautifulSoup, HTML/CSS, Heroku
- https://mars-mission.herokuapp.com/

Weather Analysis Dashboard   **Fall 2017**
- Analyzed how weather varies based on proximity to the equator
- Used Python, Pandas, matplotlib, JSON, and the OpenWeather API to collect and analyze weather data; HTML/CSS and Bootstrap to create the dashboard; Github to deploy
- http://miriamberkowitz.com/WeatherViz

PREVIOUS WORK EXPERIENCE

Gesher Jewish Day School   **Fairfax, VA**
Committee on Trustees Member, Past VP Fundraising, and Past President   **June 2003 - Present**
- Trained 7 professionals to use donor database, improving pledge collections by 50%. Developed and analyzed customized reports, driving fundraising strategies
- Led fundraising efforts, recruited and trained multiple teams of over 40 volunteers to raise significant funds with an annual increase of 10% and up to $500K per year
- Led Executive Committee in key decision making, strategic planning, and stakeholder communication, strengthening the Board and increasing community outreach and engagement

Sweet Wraps   **Vienna, VA**
Founder and Owner   **October 2001 - Dec 2012**
- Designed, implemented, and maintained company website for displaying and ordering personalized candy bar wrappers for all occasions
- Designed, printed and wrapped candy bars with personalized wrappers

Systems Engineering Services Corporation   **Reston, VA**
Senior Systems Analyst   **April 1995 - July 1999**
- Engineered and rewrote complex accounting system from inefficient code to consolidated Sybase SQL stored procedures, reducing execution time from 30 hours to 10 minutes weekly.
- Interpreted oil trading business needs and designed, coded, and tested technical solutions as part of 40-person team

Lockheed Martin Corporation (formerly IBM Federal Systems)   **Gaithersburg, MD**
Advisory Programmer   **August 1984 - April 1995**
- Technical lead for 10-person team developing strategies and prototypes to re-engineer complex mainframe (classified) software systems onto UNIX platform; established and documented software standards and procedures for consistent development for 80+ person team
- Developed and integrated (classified) applications using C, Sybase, and SQL, delivering enhanced functionality of existing mainframe systems
- Designed, coded, integrated, and tested large-scale mainframe (classified) systems, as part of 300+ person project, developing thousands of lines of code
- First-hand experience with all phases of product development life cycle