

# JEFFERY A. BROWN

PORTFOLIO (GITHUB): [HTTPS://DADDYJAB.GITHUB.IO/JEFFERY BROWN PORTFOLIO](https://daddyjab.github.io/jeffery_brown_portfolio)

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## DATA SCIENTIST

**Adept at Using Scientific Methods, Processes, Algorithms and Systems to  
Provide Critical Business Insights**

Passionate about using data to analyze and synthesize infrastructure, solve complex problems, and design actionable plans for organizations. Remain abreast of changes in data analytics and intelligent ecosystems. A trusted advisor with an established reputation for leading and coaching high-performing technical teams. Collaborate with cross-functional business partners to anticipate future needs, lead projects, define priorities, and mitigate risk. Provide prescriptive solutions that guide decision making through advanced analytical models.

Areas of expertise include:

- Agile / Lean Project Management
- Data Wrangling, Analysis and Visualization
- Software Engineering
- Software Development Life Cycle (SDLC)
- Machine Learning Models
- Advanced Analytical Models
- Client and Vendor Management
- Leadership and Coaching

## DATA SCIENCE & ANALYTICS PROJECTS

**GeoTweet** – Python, PostgreSQL, ETL, Flask, Heroku, JavaScript/D3 | [GitHub](#) | [Visualization](#) (Heroku)

**Developed full-stack interactive dashboard of Twitter Trends to aid political analysis.**

- Partnered with a small team to retrieve trending Twitter terms and correlate with state demographics.
- Implemented database and API backend using Python, Pandas, Flask, SQLite, Postgres, and deployed using Heroku. Designed and executed selected demographics charts using Javascript, D3, and Plotly.

**CitiBike** – Python, Tableau | [GitHub](#) | [Visualization](#) (Tableau)

**Provided analysis and visualization of CitiBike usage in the Jersey City Area.**

- Worked independently to explore and analyze CitiBike usage and summarize key findings.
- Used Python (Pandas) to explore CitiBike datasets and prepare them for analysis. Performed analysis and implemented reports and dashboard using Tableau. Published summary on Tableau Public.

## PROFESSIONAL EXPERIENCE

**NOKIA**, Naperville, IL

2004 to Present

**Release Leader, Mobile Networks**

**2016 to Present**

Partnered with cross-functional business stakeholders to lead customer-specific end-to-end validation testing for 4G and 5G releases.

- Led end-to-end validation testing efforts for over 6 releases, successfully completing testing focused on the configurations, scenarios, and performance metrics used by our customers.
- Drove savings of \$900K and improved effectiveness, quality, and employee satisfaction by engaging 200+ project members to brainstorm 60+ ideas for Lean initiatives.
- Empowered 4 teams to analyze corporate survey results and develop action plans over 2-year period.
- Promoted collaboration using Microsoft SharePoint, OneNote, and other resources, including development and delivery of webcasts / in-class tutorials to 100+ participants.
- Reduced data preparation time 50% by developing Excel VBA applications and Power BI visualizations to facilitate tracking and management of test progress.

**Capacity, Performance, and Resiliency Test Manager****2011 to 2016**

Built and guided teams of engineering professionals to evaluate LTE network performance using state-of-the-art tools and techniques. Drove product changes to improve quality. Collaborated with customers (leading wireless service providers) to ensure world-class performance.

- Helped highlight the linkages between end-to-end performance testing results and SW quality through refinements in the organization performance dashboard reported monthly to business leadership.
- Improved resiliency testing to provide more targeted focus on client needs; managed quarterly discussions with customers, and guided internal global test teams.
- Overhauled workflow and increased transparency through implementation of Lean methods in resiliency testing and management of third-party tools integration and support.
- Restored customer confidence by researching, evaluating, and deploying specialized testing equipment to catch voice quality problems in-lab vs. in our customers' networks.

**Wireless Platforms and RAN Test Manager****2004 to 2011**

Ensured wireless network SW/HW platform systems and LTE Radio Access Network products met the demanding expectations of client base. Worked with global development teams and third-party vendors both directly and as manager of technical professionals.

- Improved test automation team responsiveness and satisfaction through implementation of Agile (Scrum) best practices, providing a consolidated view of customer needs, backlog, stories, and tasks managed through an easy-to-use tool.
- Received the Alcatel-Lucent 2014 Award of Excellence and Innovation for continuing efforts to improve individual and organizational effectiveness using technology.

**ADJUNCT FACULTY EXPERIENCE****COLLEGE OF DUPAGE**, Glen Ellyn, IL**Adjunct Faculty****2017 to Present**

Expanded the knowledge of 50+ continuing education students by occasionally teaching computer classes, including Microsoft Office applications (Excel, PowerPoint, Word, Access, Outlook, and OneNote).

**DATA SCIENCE TOOLS & TECHNOLOGIES**

Python (Pandas), Excel Visual Basic for Applications (VBA), Tableau, Power BI, R, Machine Learning (Logistic Regression, Linear Regression, Random Forests, Hyper-Parameter Tuning), Neural Networks/Deep Learning (Keras), Big Data (PySpark), SQL Databases (PostgreSQL, MySQL, SQLite), NoSQL Databases (MongoDB), Extract/Transform/Load (ETL), Web Scraping (BeautifulSoup, Splinter), APIs (Flask, JSON), Visualization (JavaScript, D3, Leaflet, HTML, CSS, Bootstrap), Heroku

**EDUCATION & PROFESSIONAL DEVELOPMENT****Deep Learning Specialization – In Progress**, Coursera.org

Neural Networks and Deep Learning; Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization; Structuring Machine Learning Projects; Convolutional Neural Networks; Sequence Models

**Certificate in Data Science**, Northwestern University, Chicago, IL

Intensive 24-week Data Science Boot Camp providing hands-on learning, with application of data exploration, analysis, and visualization tools and techniques to real-world analytical challenges.

**Master of Business Administration (MBA)**, Illinois Institute of Technology, Stuart School of Business, Chicago, IL

**Master of Science in Electrical Engineering (MSEE)**, Rensselaer Polytechnic Institute, Troy, NJ

**Bachelor of Science in Electrical Engineering (BSEE)**, The Ohio State University, Columbus, OH