Brett Chevalier

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EDUCATION

UNIVERSITY OF FLORIDA

- Bachelor of Science: Computer Science — Graduation: May, 2020
- GPA: 3.3 - (Relevant coursework listed on my LinkedIn profile)
- Extracurricular: Phi Theta Kappa Honor Society, Santa Fe Red Cross Club, UF Open Source Club

PROJECT EXPERIENCE

- Led a team of four to develop a **MERN** stack web application for generating recipe suggestions. Created **React** components and built backend functionality using **Node.js**, **Express.js**, and **Mongoose** (MongoDB) to provide RESTful services.
- Developed a **MEAN** stack web application which collects and visualizes live Twitter data on regional/local trends - alongside a team of three others working under the **Agile** development cycle. Implemented backend functionality (**Node.js**, **Express.js**), designed schemas in Mongoose and formulated CRUD services for user data and algorithms to make API calls to Twitter, parse and utilize returned data.
- Built an application for performing CRUD operations on a local **SQL** database. Created indexes to speed up read queries by an average of 36%, and triggers to log all data modifications.
- Created an encrypted messaging application with TCP/IP sockets in **C++** using CryptoPP encryption library, implemented AES-256 CFB mode encryption with Diffie-Hellman key agreement.

TECHNICAL SKILLS

- JavaScript, Node.js, React.js, Express.js, R, Python, C/C++, Java, HTML5, CSS
- Python Libraries: Pandas, Scikit-learn, SciPy, Matplotlib, Seaborn, Folium
- SQL and MongoDB (Mongoose) databases
- Agile/Scrum development cycle, Git, R Studio, Jupyter, Tableau, Docker
- IBM Cloud, Amazon Web Services (AWS)

CERTIFICATES

IBM DATA SCIENCE PROFESSIONAL CERTIFICATE — November, 2021

- Completed a 10 course data science series focused on data analysis, visualization, statistical analysis, predictive modeling and machine learning algorithms using Python, SQL, Watson Studio and IBM Cloud. Utilized Seaborn, Matplotlib, and Folium for statistical analysis, visualization and mapping. Built and evaluated machine learning models and pipelines using Scikit-learn, SciPy and other Python libraries, performed hands-on data manipulation and analysis in the IBM Cloud with real-world data sets.

GOOGLE DATA ANALYTICS PROFESSIONAL CERTIFICATE — September, 2021

- Acquired an understanding of the procedures and methodology of data analysis. Utilized tools such as spreadsheets, SQL, R and Tableau to collect, clean, analyze, visualize and present data to facilitate data-driven decision making. Demonstrated proficiency in effective analytical questioning techniques, identifying and controlling data biases, and ethical data practices.