

Khoki N. Bernier

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Website: <https://khokibernier.com/>

EDUCATION

Virginia Tech

B.S. Business Information Technology – Operation and Supply Chain Management

Blacksburg, VA

August 2011 – May 2015

- BIT Course GPA: 3.90
- In Major GPA: 3.76

EMPLOYMENT

American School Way, Lexicom, Freelance

English Second Language Teacher

Medellin, Colombia

January 2019 – March 2020

- Taught English to beginner, intermediate, and advanced level students from ages 10 - 60+
- Created lesson plans, activities, and cultural events to increase cultural literacy and awareness

Accenture Federal Services

Senior Data Analyst

Arlington, VA

October 2016 – November 2018

- Use SQL and PL/SQL to extract, analyze, transform, and present data and findings based on client requests
- Front-end and back-end support of client dashboard visualization tool
- Identify data flow defects amongst tables and SQL packages and determine appropriate code change for resolution
- Apply client specific functional knowledge to optimize process flow and performance reporting

PricewaterhouseCoopers LLP

Risk Assurance Experienced Associate

McLean, VA

July 2015 – August 2016

- Led an evaluation of the design and operating effectiveness of internal controls within key business processes / integrations for one of the world's largest federal credit unions
- Identified deficiencies in processes around applications and data that could materialize to fraudulent activity or inaccurate financial statement assertions
- Conducted walkthrough and status meetings with client contacts and C-level executives
- Assessed the completeness and accuracy of data movement amongst financially significant applications/reports

TECHNICAL PROJECTS

Machine Learning Projects

Link: <https://khokibernier.com/>

NBA Player Stat Prediction Model - Supervised Learning

- Built NBA player stat prediction model that outperformed ESPN's player projections for the 2019 season using multivariate regression, prior year weighted averages, and average percent change by age with pandas, sklearn
- Web scraped and wrangled 15+ years of NBA team and player data using python BeautifulSoup and bumpyp
- Created NBA team dashboard in Tableau that lets user view prior year data and current roster and predict next year win percentage by adjusting variable slider values, as well as a player stat prediction dashboard to identify potential targets

NYC Neighborhood Clustering by Crime Type - Unsupervised Learning

- Used K-means clustered algorithm to cluster 300+ NYC neighborhoods by crime type (murder, robbery, traffic, etc)
- Mapped crime location to nearest neighborhood location using minimum Euclidean distance between coordinates
- Visualized data in Tableau

SKILLS

Technical Skills: PL-SQL, SQL, Python, Tableau, Data Analysis and Visualization, MS Office (Excel, Access, PowerPoint, etc.), VBA, Agile (ICAgile Certified), Regression Analysis, Clustering, Business Process Documentation and Audit, Client Interaction, TEFL (Teaching English as a Foreign Language) Certified

Foreign languages: Japanese (Conversational Proficiency), Spanish (Conversational Proficiency)

Interests: Data (Science, Analysis, Visualization, Engineering), Problem solving, Spanish, Volunteering, Traveling, Athletics

COMMUNITY SERVICE

The Next Step Public Charter School – Teach English to ESL students in preparation for GED equivalent exam

Special Olympics – Helped teach Special Athletes athletic and personal skills