

# Kyle J. Lee

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Programmer focused on understanding how data can be used to solve complex issues with meaningful solutions. Seeking opportunities to wrangle, analyze, and depict intricate datasets utilizing Python, SQL, JavaScript, and Excel.

## TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, JavaScript, HTML/CSS
- **Libraries/Frameworks:** Pandas, NumPy, Matplotlib, Flask, SQLAlchemy, BeautifulSoup, D3
- **Databases:** MySQL, MongoDB, Microsoft Access
- **Other:** Git, Microsoft Excel, Microsoft PowerPoint, Microsoft Word

## PROJECTS

- **Machine Learning Song Genre Identifier**
  - Constructed a model using Naïve Bayes and Support Vector Machines that achieved 89% accuracy in predicting the genre of a song based on its lyrics
  - Presented findings through an interactive website built with Flask, HTML, CSS, and JavaScript
- **Olympic Games Data Visualization Dashboard**
  - Transformed 120 years of Olympics data to create an exploratory dashboard with D3. Extracted data from a MySQL database, using flask and SQLAlchemy and pushed it to an API in JSON and GeoJSON format
- **Bureau of Labor Statistics (BLS) Demographic Expenditures Analysis**
  - Extracted data from the BLS API and created visualizations with Matplotlib comparing the average annual expenditures among differing demographics in the US

## EXPERIENCE

**Perspecta/Executive Office for United States Attorneys, Washington, DC** January 2018-March 2019

### *Enterprise VoIP Service Analyst, Public Trust Clearance*

- Managed a nationwide phone system upgrade for US Marshal Service, resulting in a 400% increase in conversion rate and augmented cost savings
- Resolved spontaneous crisis related to the failure of existing infrastructure at US Marshal Service sites
- Troubleshoot issues and provided incident support to over 30,000 Department of Justice employees via a SCSM ticketing system

**University of Richmond Department of Psychology, Richmond, VA**

January 2016-March 2017

### *Research Assistant, Summer Research Fellow*

- Coded a framework using Gamemaker Language for users to take psychological tests online, and managed the results in a MySQL database
- Programmed data structures and randomization algorithms for the presentation of data in these psychological tasks
- Awarded a summer research fellowship grant to conduct research full time and presented findings to faculty from the school of Arts and Sciences.

## EDUCATION

**George Washington University, Washington, DC**

February 2019

### **Certificate in Data Analytics and Visualization**

- A half-year program focused on applying technical programming skills in Excel, Python, JavaScript, SQL Databases, Web Scraping, ETL, and Machine Learning

**University of Richmond, Richmond, VA**

May 2017

### **Bachelor of Arts in Cognitive Science**

- **Minors:** Mathematics and Computer Science
- **Relevant Coursework:** Data structures (Java), Algorithms (Java), Psychological Statistics (SPSS), Numerical Analysis (MATLAB), Multivariate Calculus, Differential Equations, Software Systems Development (Java & C++)