Stephen Hullender

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EDUCATION

Temple University, College of Science and Technology, Philadelphia PA
Bachelor of Science in Computer Science, Minor in Data Science (Concentration in Computational Analytics)
Dean's List Award, Fall 2020 *Expected graduation date: December 2022*
Relevant coursework: Software Design, Calculus III, Data-Intensive and Cloud Computing, Principles of Data Science, Intro. to Mobile Application Development, Wireless Networks and Security

TECHNICAL SKILLS

Languages: Python, Java, C, HTML, CSS, JavaScript, SQL
Systems: Linux, Git, AWS (EC2, S3), Hadoop, VirtualBox
Frameworks/IDEs: Django, Flask, Android Studio, Visual Studio
Data Science: pandas, NumPy, matplotlib, scikit-learn, Jupyter Notebook

WORK EXPERIENCE

Computer Lab Consultant
Temple University Department of Computer Information Sciences, Philadelphia, PA August 2021 – *Present*

- Identify client needs among 3 laboratory settings by troubleshooting computer and intermedia equipment and Windows operating systems to reduce response issues and expedite classroom collaboration
- Organize workspace equipment and check for working hardware among 30-60 workspaces between open lab hours and prior to closing hours

Teaching Assistant
Temple University College of Science and Technology, Philadelphia, PA August 2021 – May 2022

- Support engagement of disciplinary knowledge for Elements of Data Science for the Physical and Life Sciences by tutoring 60 first-year students introductory data science and statistics concepts
- Demonstrate data analyzation and manipulation techniques using pandas and NumPy on 15 laboratory projects via Jupyter Notebook (Python), with extra assistance via communication in-person and Zoom

PROJECTS

How Can I Help? App April – May 2022

- Emulated mobile application designed to request or advertise charitable items/services, encoded in Java (Android Studio) and XML for design-oriented purposes
- Incorporated Google Maps API to provide visual assistance in local postings, information retrieved via Google Firebase and customization of map interface provided by marker and information window adapter classes

Python Musical Genre Predictor March – April 2022

- Integrated web scraping libraries to fetch lyrics from over 46,000 songs, with Natural Language Processing libraries and regular expressions to refine and clean raw text data
- Utilized scikit-learn text vectorization to measure frequency of words and logistic regression model to calculate accuracy scores for classifying predictions between training and testing data
- Assembled 10 most common words per genre across 32 genres using K-means classifier

Image Processing Application February – March 2022

- Web application developed via Django (Python), formatted with HTML/CSS, and deployed via AWS EC2 instance with AWS S3 bucket for cloud storage
- Structured image processor via Python Image library to convert image from request of 6 filters, uploaded files handled via model-view-controller architecture

AFFILIATIONS

National Science Foundation, CISE Education & Workforce PI Meeting Volunteer (May 2022)
Temple Association for Computing Machinery, Member (September 2020 – *Present*)
Temple Dean of Students, Cherry Pantry Volunteer (August 2020 – May 2022)