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 w/ Concentration in Computational Analytics
Dean's List Award, Fall 2020   *Expected graduation date: December 2022*
Relevant coursework: Projects in Computer Science, Foundations of Machine Learning, Software Design, Calculus III, Smart Sensing & Devices, Data-Intensive & Cloud Computing, Mobile App. Development, Wireless Networks & Security

SKILLS

Python, Java, JavaScript, HTML, CSS, SQL, C, Linux, Git, MySQL, AWS (EC2, S3), React.js, Flask, Android Studio, Eclipse, Hadoop, pandas, NumPy, scikit-learn, Google CoLab

EXPERIENCE

Incoming Backend Engineer Intern | *Above & Beyond Studios, Inc., REMOTE*   *August 2022 – February 2023*

Independent Research Assistant | Temple University, Philadelphia, PA   May 2022 – *Present*
- Analyze network security datasets by comparing classification scores for adversary detection based on 10 assorted machine learning algorithms via Google CoLab and Weka (Java)
- Assemble stratified k-fold and train-test split validation models using scikit-learn to sort predicted and actual values using 42 dataset attributes to predict from 23 target values, 99% accuracy rates from 80% of algorithms
- Research comparison of Naïve Bayes neural network classifiers for higher improvement in classifying scores
- Customize visualizations of scores and error percentages using Microsoft Excel, and author publication on Microsoft Word report for improved visual understanding to researchers

Computer Lab Consultant | Temple University, Philadelphia, PA   August 2021 – *Present*
- Identify client requests among three laboratory settings by troubleshooting computers, intermedia equipment, and Windows operating systems to reduce response issues
- Coordinate the inspection of 60 workspaces to check working hardware, and tidy lab areas between open lab hours and prior to closing hours to accommodate uninterrupted course instruction

Classroom Assistant | Temple University, Philadelphia, PA   August 2021 – May 2022
- Supported engagement of disciplinary knowledge by tutoring 60 first-year students introductory data science and statistics concepts for Elements of Data Science for the Physical and Life Sciences
- Demonstrated data analyzation and manipulation techniques using pandas and NumPy on 15 laboratory projects via Jupyter Notebook (Python) to help students learn relational database and machine learning skills
- Provided office hours via Zoom four hours weekly, graded lab assignments and charted participation points for students visiting outside classroom hours

TECHNICAL PROJECTS

Korean Building Blocks   June 2022 – *Present*
- Encode React.js frontend and Flask backend web application to teach users the Korean language by assembling blocks of various vowels and consonants together, includes dataset of 11,172 character combinations
- Categorize entries from Korean-English dictionary website by integrating Python web scraping library with Selenium WebDriver for translative purposes, and implement speech synthesis API to help with audible learning

How Can I Help   April 2022 – May 2022
- Programmed mobile application in Android Studio (Java) application to request or advertise charitable items or services, including XML for design layouts and testing with emulator software, team-based project
- Incorporated Google Maps API to provide visual assistance in local postings, customization of map interface provided by marker and information window adapter classes, information retrieved via NoSQL database

AFFILIATIONS

Temple Association for Computing Machinery, Member   September 2020 - *Present*
Temple Dean of Students, Cherry Pantry Volunteer   August 2020 – July 2022
National Science Foundation, RESPECT and CISE PI Meeting Conference Volunteer   May 2022