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
GPA 3.24/4.0, Dean's List Award Fall 2020   Expected graduation date: December 2022
<u>Relevant coursework</u>: 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, PostgreSQL, AWS (EC2, S3), React.js, Node.js, Flask, Android Studio, Eclipse, pandas, NumPy, scikit-learn, Google CoLab

EXPERIENCE

Software Engineering Intern | Above & Beyond Studios, Inc., REMOTE   August 2022 – *Present*
- Configure controller-route API architecture using Node.js with backend development team to ensure data for user accounts and product inventory is received between client-side and server-side applications
- Arrange data in PostgreSQL database via Knex.js query builder, includes bcrypt.js for sensitive account credentials

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

Undergraduate Research Assistant | Temple University, Philadelphia, PA   May 2022 – August 2022
- Analyzed network security datasets by comparing classification scores for adversary detection based on 10 assorted machine learning algorithms via Google CoLab and Weka (Java)
- Assembled 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
- Customized visualizations of scores and error percentages using matplotlib for improved visual understanding to researchers, and authored Microsoft Word report for publication purposes

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

TECHNICAL PROJECTS

YouTube Audio Downloader – Independent Project   August 2022
- Designed Python program to download audio from YouTube using open source download manager youtube-dl, including Tkinter GUI for desktop interface and Bash script executed using system calls via subprocess library
- Allocated queue data structures for multiple download requests and recent file downloads

How Can I Help – Junior Capstone Project   April 2022 – May 2022
- Programmed mobile application in Android Studio (Java) with team of four members to request or advertise charitable items or services, including XML for design layouts and testing with emulator software
- 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