Wavid Bowman

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Education

Bachelor of Science in Computer Science | Bachelor of Arts in Classics *Dec. 2024*
University of Florida, Gainesville, FL 3.85 GPA

Relevant Coursework: Data Structures, Discrete Structures, Intro Software Engineering, Programing Language Concepts, Special Topics: Cybersecurity, Algorithm Abstraction and Design, Human-Computer Interaction, Operating Systems

Skills/Certifications

Languages: Python, C++, Java, C, TS, HTML, XML, Matlab, JS (Angular and React)
Skills: Object-Oriented Programming, Libraries/modules, Git, SWE - Frontend, PyTorch
Certifications: NVIDIA DLI Transformer Based NLP Applications

Experience

AI Team Lead - UF Data Driven Humanities Research Group *Aug. 2022 - Current*

- Leading an interdisciplinary team of 9 undergraduates in developing a Natural Language Processing (NLP) algorithm in Ancient Greek and Latin using an ALBERT model trained to complete aspect extraction and sentiment analysis (ABSA) tasks
- Collaborating with preprocessing team in preparing data for input into the algorithm
- Managing technical undergraduates in dataset generation and lemmatization tasks
- Co-Authored a manuscript currently under peer-review by the DSH journal

Research Assistant - Universität Leipzig Institute of Computer Science *May 2023 - Aug. 2023*

Performing treebanking, annotating, and other tasks to assist Dr. Giuseppe Celano remotely for his ongoing German Research Foundation (DFG) project. Tasks include:

- Creating annotated databases of Latin Lemmas utilizing existing XML and JSON files
- Mapping Latin lemmas to their spelling variations due to linguistic drift and dialectic differences.

Electronics Hardware/Software Engineer - SpinCore Technologies *May 2022 - Jul. 2022*

- Improved cybersecurity by creating and implementing new procedures for handling potentially harmful files and emails
- Innovated new add-ons for pulse generators, including a wireless connectivity module, bluetooth module, and long-range access using Virtual Network Control (VNC) software
- Modernized file management system to be less susceptible to cyberattacks
- Generated innovation ideas with my team lead and other members in my role

Software Developer - UF Data Driven Humanities Research Group *Sep. 2021 - Aug. 2022*

- Developed an NLP deep learning algorithm using the SKLearn Python module to trace the origins of racial, occupational, and sexual prejudices in the classical world
- Scraped and parsed >1000 XML files of various schema into one CSV for data processing
- Implemented sparse matrices, maps, trees, and dataframes using numPy and pandas to reduce memory complexity of algorithms and their output data
- Integrated input from fellow researchers from a variety of fields including computer science, mathematics, and humanities

Publications

2023 Association of Computational Humanists (ACH) Conference: Lightning talk - 6/29/23
2022 HiPerGator Symposium: Talk - Link

Extracurricular Involvement

Student Government: UF Student Senate Mental Health Committee Co-Chair
STEM: Out in STEM - Member; gAItor club - Member; ACM - member
Humanities: Eta Sigma Phi - President; UF Change Party -Legislative Director