Antonio Laverghetta Jr.

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[LinkedIn] ◊ [GitHub] ◊ [Website]

EDUCATION

PH.D. in Computer Science and Engineering May 2023
University of South Florida Tampa, FL
GPA: 3.66/4.0

BS in Computer Science December 2018
University of South Florida Tampa FL
GPA: 3.5/4.0

EXPERIENCE

Graduate Research Assistant January 2019 – Present
Advanced Machine and Human Reasoning Lab Tampa, FL

- Developed a model of semantic relatedness using LSA and sci-kit learn
- Designed a computational model of analogies using the Category Builder and Word2Vec language models
- Used PyTorch to create a curriculum learning framework to improve performance of the BERT and RoBERTa language models
- Work was published at respected conferences

Teaching Assistant April 2020 – September 2020
Trilogy Education New York, NY

- Mentored students in Trilogy's Data Analytics Bootcamp
- Instructed students on a variety of Data Science tools, including SQL, Python, AWS, and Tableau
- Delivered a lecture PyTorch for NLP applications
- Overall satisfaction was consistently rated 4 or higher on a 5-point scale

Computer Science Intern May 2018 – September 2018
ConnectWise Tampa, FL

- Created Python test scripts for ConnectWise Manage web application
- Researched original issue to develop reproducible steps for testing
- Troubleshooted issues with REST API using Postman and Requests
- Used git and CodeCollab to maintain quality assurance and source control
- Completed 16 test suites, used for QA in production environments

Intern August 2016 – July 2017
Tenex Software Solutions Tampa, FL

- Developed Tenex's .NET web application platform
- Implemented UI improvements using Bootstrap and DevExpress
- Created and debugged SQL queries to interface with multiple MySQL databases
- Performed maintenance on AWS infrastructure as necessary
- Succeed in resolving approximately 125 bugs

PUBLICATIONS

Laverghetta Jr., A., Mirzakhalov, J., and Licato, J., Towards a Task-Agnostic Model of Difficulty Estimation for Supervised Learning. In *Proceedings of the 1st Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 10th International Joint Conference on Natural Language Processing: Student Research Workshop 2020*

Boger, M., Laverghetta Jr., A., Fetisov, N., and Licato, J., Generating Near and Far Analogies for Educational Applications: Progress and Challenges. In *Proceedings of the 18th IEEE International Conference on Machine Learning and Applications – ICMLA 2019.*

SKILLS AND CERTIFICATIONS

Operating Systems: Windows 10, Linux+ certified
Network Administration: A+, Network+ certified
Cybersecurity: Security+ certified
Languages: Java, C, C++, C#, VB.NET, HTML, CSS, Javascript, Python, JSON, SQL, XML, YAML
Libraries: NumPy, SciPy, scikit-learn, NetworkX, OpenCV, Bootstrap, JQuery, Tensorflow, PyTorch, Keras, Transformers, SimpleTransformers, Flask, Matplotlib, Pandas, Jupyter
Development Tools: Visual Studio, git, Notepad++, Anaconda, Postman, github, PyCharm
Cloud: Google Cloud, AWS
Theory: Knowledge Graphs, Image Processing, Natural Language Processing, Deep Learning, Machine Learning, Artificial Intelligence
Productivity: Word, PowerPoint, Excel, Teams, Slack, Trello

LEADERSHIP AND COMMUNITY SERVICE

Founding President November 2017 – December 2018
Society of Competitive Programmers USF Student Organization