Varvara (Var) Vasilchenko

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https://github.com/vasilchenkob

EDUCATION

University of Maryland, College Park MD — *Graduated May 2019*
Bachelor's Degree in Computer Science and Linguistics
GPA: 3.66/4.0

College Park Scholars Living and Learning Program — *Aug 2015 - May 2017*
Science, Discovery, and the Universe Program

WORK EXPERIENCE

MedStar National Center for Human Factors in Healthcare, *Washington DC* — *Oct 2021 – Aug 2022*
Research Analyst

- Developed software prototypes with HTML and Javascript to assist with analyses of medical documents
- Developed machine learning algorithms using Doc2Vec and BERT to categorize adverse drug events for the FDA
- Performed statistical analyses on medical data with Python

Accenture Federal Services, *Arlington VA* — *Sep 2019 – Mar 2021*
Software Engineer Analyst with the Department of Education

- Discussed technical solutions, performed data analyses, and developed deliverable products for the client
- Developed a topic modeling solution to improve the studentaid.gov virtual assistant using Word2Vec
- Maintained client tool used for analyzing complaints related to financial aid
- Performed sentiment analysis and topic model research on Reddit content related to financial aid

MedStar National Center for Human Factors in Healthcare, *Washington DC* — *Sep 2018 – Dec 2018*
University Intern for Allan Fong, MS

- Researched sentiment analysis tools to be used on documents written by medical professionals
- Developed algorithm using BeautifulSoup to scrape news websites of mentions of the Center

University of Maryland Language Science Center, *College Park MD* — *Jan 2018 – Sep 2018*
Technology Apprentice for Dr. Tess Wood

- Maintained and developed Language Science Center website in Drupal and HTML
- Created system of online applications to be used for the Center's Summer Field School
- Developed interactive web application in JavaScript with use of Google Maps API

University of Maryland Institute for Advanced Computer Studies, *College Park MD* — *Jun 2016 - Sep 2016*
Research Assistant under Dr. Marine Carpuat

- Researched the accuracy of word connotation detection through a graph-based algorithm
- Wrote and worked with algorithm created in Python with use of NLTK and NumPy
- Created a machine learning model to improve performance of algorithm
- Ran algorithm on language data with Apache Spark

RELATED SKILLS

Proficient in: SQL, Python, R, C, C++, Java
Experience with: Unix, Ruby, Assembly language, OCaml, Lisp, JavaScript, HTML

RELATED COURSEWORK

Computer Science:	Object-Oriented Programming, Intro to Artificial Intelligence, Discrete Structures, Advanced Algorithms, Data Structures, Programming Language Technologies & Paradigms, Elementary Theory of Computation, Intro to Data Science, Intro to Natural Language Processing
Linguistics:	Language and Mind, Syntax I, Phonetics, Phonology I, Mathematical Approaches to Language, Grammars & Cognition, Historical Linguistics, Topics in Psycholinguistics
Mathematics:	Multivariable Calculus, Intro to Probability Theory

LANGUAGES

Native speaker of: Russian, English