
EXPERIENCE

Software Engineering Intern	Chakrabarti Management Consultancy Inc	Jun-Aug 2021
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- Utilized Spring Boot w/ Java to develop web-app to translate XML files to readable format
- Parsed through 1000+ lines of data from Customs and Border Protection
- Streamlined CMCI's data processing service

Natural Language Processing Research Intern	Volgenau School of Engineering George Mason University	Jun-Aug 2020
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- Supported by Dr. Boicu - Associate Director of Learning Agents Center to research language learning models
- Designed, trained, and tested nonlinear matrix transformation to improve upon existing technology
- Implemented algorithm in automated short answer scoring system

Computational Biology Research Intern	School of Systems Biology George Mason University	Jun-Aug 2019
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- Supported by Dr. Vaisman - Professor of Bioinformatics and Computational Biology to research machine learning models
- Designed, trained, and tested a random forest classifier to detect geriatric depression from a psychological questionnaire
- Implemented computational diagnosis for affordability and accessibility

EDUCATION

Champaign, IL	University of Illinois at Urbana-Champaign	Anticipated May 2024
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- B.S. in Computer Science + Linguistics
- Coursework: Discrete Structures, Introduction to Computer Science II, Calculus III, Introductory Matrix Theory

PROJECTS

CSGAN *Pandas, Numpy, PyTorch, Jupyter Notebook*

Built a generative adversarial network to generate skins for weapons from Counter Strike: Global Offensive

A Generalization of Compositional Matrix-Space Models of Language for Short Answer Scoring *PyTorch*

Tested a natural language model to automatically grade short essay questions, trained on 3 billion word dataset

ACTIVITIES AND HONORS

Illinois Business Consulting, Client-facing Consultant

Helping companies identify solutions as a part of the nation's largest student-run consulting firm

Illini Bhangra, Dancer

UIUC's Bhangra team (Indian folk dance)

National Merit Finalist, Eagle Scout - Troop 1983, Presidential Volunteer Service Award(Gold)

Languages and Technologies

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- C++, Java, Python, PyTorch, Flask, HTML