

github.com/dhruv-sundar
dhruv-sundar.github.io

DHRUV SUNDARARAMAN

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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: Data Structures, Numerical Methods, Discrete Structures, Calculus III, Introductory Matrix Theory

PROJECTS

AlgoBot	<i>Pandas, Numpy, Statsmodels, YFinance, Jupyter Notebook</i>
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- Built a Discord bot to simulate real-time trading and perform TD differential analysis, ARIMA forecasting

CSGAN	<i>Pandas, Numpy, PyTorch, Jupyter Notebook</i>
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- 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	<i>PyTorch</i>
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- Tested a natural language model to automatically grade short essay questions, trained on 3 billion words

ACTIVITIES AND HONORS

Caesar Research Group, Undergraduate Research Assistant	<i>Python, NodeJS</i>
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Developing software to assist researchers with networking and connecting through related interests

Mitra Research Group, Undergraduate Research Assistant	<i>ROS, Python, C++</i>
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Researching verification and testing of autonomous driving systems

Juni Learning, Computer Science Instructor	<i>C++, Python, Java</i>
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Teaching students computer science concepts ranging from OOP fundamentals to algorithmic problem solving

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

Languages and Technologies

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