Jessica Myers

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EDUC.	A TIANI
PUUL	411011

University of Illinois Urbana-Champaign, Urbana-Champaign, IL
PhD in Computer Science

Rose-Hulman Institute of Technology, Terre Haute, IN
Bachelor of Science, Computer Science
Minors in Data Science, Math, and Music

August 2021–Present
May 2021
GPA: 3.98/4.0
Summa Cum Laude

PUBLICATIONS

Myers, Jessica, "Music Generation with Deep Neural Networks Using Flattened Multi-Channel Skip-3 Softmax and Cross-Entropy," *Rose-Hulman Scholar*, 2021. Available: https://scholar.rose-hulman.edu/computer_science_seniorproject/2/

EXPERIENCE/PROJECTS

Research Assistantship, UIUC, Urbana-Champaign, IL

Advised by Dr. Timothy Bretl

UIUC Computer Science Department, Urbana-Champaign, IL

Fall 2021

CS124 Introduction to Computer Science teaching assistant Lockheed Martin Space, Special Programs, Littleton, CO

Summer 2020

Software Engineering Intern

- Wrote code for a web application that uses machine learning to analyze data regarding the locations and movements of objects over time.
- Full stack experience working on machine learning clustering algorithms, backend, database access, test code, API calls, and UI/UX.
- Acquired skills working with Docker containers, coding in Python and JavaScript React, and using Jira software in a fast-paced, Agile environment.

Rose-Hulman CSSE Department, Terre Haute, IN Computer Science teaching assistant Fall 2019 Fall 2021

Deep Learning to Disqualify LASIK Candidates

Created a system that employs Convolutional Neural Networks to disqualify LASIK candidates through corneal topographic data (group project).

Preliminary Orbit Determination Software

Spring 2019

Fall 2020

Coded in Scheme the Gauss method of preliminary orbit determination with iterative improvement (individual project).

Highlighted Text Scanner App

Winter 2019

Developed an Android app that extracts highlighted text from an image and adds them to a notes page (partner project).

Optical Sheet Music Recognition

Winter 2019

Created software to detect rhythms and note values in sheet music using image recognition techniques in MATLAB (group project).

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PlantUML Diagram Generator

Winter 2019

Using design patterns, wrote code that parses Java code into PlantUML code to generate class diagrams (group project).

HONORS AND ACTIVITIES

UIUC Computer Science Excellence Fellowship	March 2021	
 Rose-Hulman CSSE Frank Young Outstanding Scholarship award 	May 2021	
Upsilon Pi Epsilon Honor Society	2020-Present	
Alpha Lambda Delta Honor Society	2018-Present	
Blue Key Honor Society	2019-Present	
 Dean's List, Rose-Hulman Institute of Technology 	Fall 2017–Spring 2021	
• Faculty-selected member of ESCALATE, an entrepreneurship program	n, 2017–2018	
with specialized courses, a living-learning community, and participation		
in startup weekend with an original business idea		
• Competitive pianist (14 years), clarinet player (10 years), and composer (7 years)		

Competitive planist (14 years), clarinet player (10 years), and composer (7 years)

SKILLS

Related courses: Celestial Mechanics, Deep Learning, Image Recognition, Artificial Intelligence, Observational Astronomy, Data Mining, Object-Oriented Software Development, Databases, Operating Systems, Android App Development

Programming Languages: Python, Java, Scheme, MATLAB, Kotlin, C, C++, SQL, React and Angular JavaScript, HTML

Data Science Skills: TensorFlow Keras, Pandas, Scikit-learn, NumPy, Matplotlib

Software: Jupyter Notebook, Visual Studio, Eclipse, PyCharm, Docker, Git, GitLab, Windows, Apple, Linux, Microsoft Office Suite (Word, Excel, PowerPoint, Outlook), Skype for Business, Postman

World Languages: proficient in French