DEJA SCOTT

Contact Me

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GitHub https://github.com/DS-77

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About Me

Motivated Computer Science graduate pursuing a Master's and PhD with a concentration in computer vision. With over six years of experience in web application development and five years in research, I am dedicated to expanding my expertise in the field of Computing, specifically in Computer Vision, Machine Learning, and Deep Learning, to assist others.

Languages

- Python
- C/C++
- Java
- Ruby
- TypeScript
- JavaScript
- HTML
- CSS

Frameworks & Libraries

- Ruby on Rails
- Angular 8-16
- Android SDK
- Node.js
- Numpy
- OpenCV
- Open3D
- PyTorch
- TensorFlow
- Java Play

Tools

- Bash/Unix Command
- Git Version Control
- PostgreSQL
- JetBrains IntelliJ
- IDEA/PyCharm
- Linux Web Server

Experience

UofSC Research Information Technology — Aug. 2021 - Present
IT Consultant/Developer/Graduate Research Assistant
Columbia, SC

- Full Stack development of the WorldEngraved Web Interface
- Maintain and debugged source files on HPC Cluster for Snowvision Project
- Design and Implement Image Processing Algorithms for Snowvision Project
- Developing Deep Learning Models for Image Segmentation, Object Detection, and Shape Matching

UofSC Research Information Technology — June 2019 - Present
World Engraves Frontend Developer

- Creating and now maintaining the user interface for the Snowvision Design matching algorithm
- Troubleshooting interface/algorithm interaction
- Designing and implementing improvements to the interface to ensure seamless interaction with the algorithm.

CVPR (2023 - 2024) Conference — 2023-2024
Peer Reviewer

University of South Carolina — Aug. 2022 - Dec. 2022
(GIA) Graduate Instructing/Lab Assistant

- Assisting Students with in-class assignments and homework questions
- Explaining concepts in programming and the Java programming language
- Demonstrating course concepts with code and other visuals

University of South Carolina | Create-A-Thon — Oct. 2021
Volunteer Web Developer Consultant

- Strategizing and implementing solutions to improve user experience
- Collaborating with volunteer marketing strategist for designing webpage infrastructure
- Providing mentorship to visual communications students in web design

UofSC Research Information Technology — June 2019 - Aug. 2021
Research Support Intern

- Designing and implementing user interfaces
- Documenting resource code for projects
- Testing and debugging projects
- Collaborating with clients on project design

Nova Band Communications LLC — Jan. 2014 - Aug. 2018
Intern

- Managing equipment
- Designing Cabling Infrastructures
- Updating Computer hardware
- Analysing Break fixes.

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Research Intrest

Computer Vision, Image Processing, Deep Learning, and Machine Learning

Awards

- Discover UofSC 2021: Undergraduate Excellence and Outstanding Achievement Award
- Dean's List 2018-2021
- Atlantic Institute: Future Leaders Dialogue Dinner Attendee (2017)
- Midlands Technical College Life Scholarship (2016-2018)
- All About Education Scholar (2016)

Education

Ph.D in Computer Science
University of South Carolina
August 2022 - Ongoing

Master of Science in Computer Science
University of South Carolina
August 2023 - Ongoing

B.S.C.S Bachelor in Computer Science
University of South Carolina
August 2018 - August 2021

A.S.A.S Associate in Science
Midlands Technical College
August 2016 - May 2018
Graduated with Honors

Research Experience

Snowvision Research Project
Research Assistant

I am responsible for designing and implementing an algorithm that splits the RGB image of a cultural heritage object and pairs it with its previously split depth image. This algorithm uses contour-based shape matching to assign the RGB image to the corresponding depth image. I also maintained the algorithm source files on the HPC cluster.

Snowvision Research Project
Full Stack Developer

I am responsible for the frontend development of the World Engraves website, Spring Boot Server Client, and PostgreSQL database, and maintaining the connection from the Airavata Science Gateway to the HPC cluster.

Snowvision Research Project
Frontend Developer

I was responsible for the front-end development of the World Engraves website. I designed and implemented the user interface for interacting with the Snowvision Design matching algorithm.

Publications & Presentations

Presentation

February 2024. UofSC/Lexington 1 Game Development Field Trip, Want to become a Game Developer?, Oral, Presenter

Publication

"Orthogonal Dictionary Guided Shape Completion Network for Point Cloud" AAAI, 2024 (Submission Pending)

Presentation

April 2021. Discover UofSC 2021, Contour-Based Shape Matching and Segmentation of Cultural Heritage Objects, Virtual. Presenter

Publication

“Snowvision: Segmenting, Identifying, and Disseminating Stamped Curve Patterns from Fragments of Pottery” International Journal of Computer Vision, 2022