Josue N. Rivera

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LinkedIn: https://www.linkedin.com/in/josue-n-rivera/ | Portfolio Site: https://josuenrivera.site

EDUCATION

Master of Science | University of Massachusetts Dartmouth – Dartmouth, MA   May 2020
- o Concentration: Computer Science
- o Courses Taken or Taking: Algorithms and Complexity;
- o Courses Expected: Theoretical Computer Science; Advanced Computer Systems; Advance Data Mining.

Bachelor | University of Massachusetts Dartmouth   December 2019
- o Major: Computer Science | GPA: 3.95
- o Honors, Leaderships and Awards: Endeavor Scholar; Newman Fellow; Chancellor's list; Commonwealth Honors Student; 29 Who Shine Award Recipient; University Civic Engagement Award;
- o Courses Taken or Taking: Object-Oriented Programming; Procedural Programming; Computer System; Computer Organization and Design; Software Specification and Design; Algorithm and Data Structures; Design of Operating System; Empirical Methods for Computer Science; Model of Computation; Social and Ethical Aspects of Computer Science; Database Systems; Parallel & Distributed Computing; Calculus; Discrete Structures; Probability; Linear Algebra;

Lawrence High School Diploma | Math, Science and Technology High School   June 2016
- o Honors, Leaderships and Awards: Valedictorian; L'Pin award recipient;

TECHNICAL EXPERIENCE

Senior Design Project | 3D Geometry Foot
- o Designed an algorithm that can reconstruct 3D models of people feet from images and find their measurements

Research | Convolutional Neural Network and its Ability to Reproduce 3D Models
- o Researching ways of applying CNN in the reconstruction of 3D models

Research | Hopfield Neural Network Implementation for Recovering Bitmaps
- o Developed a web application that can be used to test the capacity of bitmaps recovery by HNNs

Video Game Development | Runner-Z
- o Designed a video game for the Intellivision console of 1979

Python Library Development | CleverAI
- o Currently constructing a python Neural Network library

PerkinsHack "Privacy, Please!" Winning Project | EZForm
- o A text reader for images with textual context that allows blind individuals to fill out forms in private

Portfolio Site | https://josuenrivera.site
- o Built a personal website to showcase my current and past projects

TECHICAL SKILL

Programming Languages, Libraries and Frameworks:
- o Fluent: Python; C; Java; HTML; CSS; JavaScript; Node.js; Basic; SQL; Git; JSON; XML; OpenCV; TensorFlow; Keras;
- o Familiar: C++; PHP; jQuery; Bootstrap; Tizen;

Software:
- o Fluent: Blender 3D; Arduino; Photoshop; Microsoft Office 365;
- o Familiar: Android Studio; Tizen Studio; Unity 3D; Resolve; SolidWorks;

Languages:
- o Fluent: Spanish; English;

Others:
- o Fluent: Scrum; Agile Development; UML; Unit Testing;

o Familiar: Integration Testing;

PROFESSIONAL EXPERIENCE

Researcher | University of Texas at Dallas   May 2019 - Present
o Conduct research on software safety and reliability
Research Assistant | UMass Dartmouth   September 2017 – Present
o Work as a research assistant for professor Dr. Maoyuan Sun

LEADERSHIP EXPERIENCE

Treasurer | UMass Dartmouth Big Data Club   September 2018 – Present
o The club focuses on building models to understand trends in large amount of data
President | UMass Dartmouth Animation Club   September 2017 – Present
o In charge of leading the club and bringing out the best of animation
Delegate | UMass Dartmouth Model United Nations   September 2017 – Present
o Discuss global issues and possible solutions at the NMUN conference in New York City
UMass Dartmouth Representative | Leduc Center for Civic Engagement   September 2017 – Present
o Member of the Community Advisory Board
Chair | UMass Dartmouth Gaming Society   January 2018 – May 2019
o Chair of the Anime Club
o Member of the executive board
Senator | UMass Dartmouth Student Government Association   September 2017 – May 2019
o Civic Engagement Committee Chair (2017 - Present)
o Senator for Class of 2020 (2017-2018), Senator for the College of Engineering (2018-2019)

CIVIC ENGAGEMENT EXPERIENCE

CIS Mentor | CIS Dept. UMass Dartmouth – Dartmouth, MA   January 2019 – Present
o Mentor various computer science courses at the university
Leduc Leader | Leduc Center for Civic Engagement   September 2016 – Present
o Conduct and lead community service events that gets college students involve in their community
Volunteer | Food Pantry: Arnie's Cupboard   September 2016 – Present
o Help provide food to students, staff, faculty and community members in need of the university
STEM Teacher Volunteer | Fall River YMCA   November 2016 – May 2019
o Taught the STEM class that involved Computer Programming, Physics, Engineering and Robotics

HOBBIES

Painting/Drawing	3D modeling	Cooking	Exploring other cultures
Anime	Game design	Watching movies	Robotics/Electronics
Golf	Web design	Pool/Billiard	Learning