RAYMOND NUCUTA

Tempe, AZ · rnucuta@asu.edu · 602-402-0260 · www.raymonucuta.com · www.github.com/rnucuta

EDUCATION

Arizona State University (ASU) Barrett Honors Program, School of Computing and Augmented Intelligence   Tempe, AZ
BS in CS (Software Engineering Concentration, Math Minor) + MS in CS (AI Concentration) *GPA: 3.84*
Aug 2021 - May 2025

BASIS Scottsdale High School   Scottsdale, AZ
GPA: 4.87   August 2017 - May 2021

WORK & RESEARCH EXPERIENCE

Amazon Web Services   Dallas, TX
Cloud Support Engineer Intern   May 2023 - August 2023

- Client-facing role, developing strong communication skills for relaying sophisticated concepts in an understandable manner. Became adept in creating highly available, resilient applications through AWS' Well-Architected Framework. Proficient with Lambda, VPC's, and Sagemaker. Developed ML skills with Sagemaker endpoints, NLP, and seq2seq through an internal Amazon project. Created training materials for future AWS interns.

ASU Biodesign Institute   Tempe, AZ
Undergraduate Machine Learning Researcher   May 2022 - August 2022

- Programmed binary classifier for DNA Origami research.

- The research paper will be published soon, 3rd author.

The Translational Genomics Research Institute (TGEN)   Phoenix, AZ
Bioinformatics Researcher   May 2020 - August 2020

- Used statistical methods alongside Python to research epigenetic sexual differences in brain cancer (GBM).

Systems Imagination Inc.   Tempe, AZ
Artificial Intelligence Researcher   May 2019 - August 2019

- Developed Zero-Shot Concept Learner for use in drone applications to perform inferences using visual concepts.

- Learned about computer vision and cutting-edge ML theories of concept learning.

SKILLS

Programming Techniques: **Scrum Framework**, Python, Java, C/C++, MATLAB, Node.js, React.js
Technologies: AWS, Linux, Blockchain contracts, Computer Vision, NLP, Prompt Engineering,
ML w/ Tensorflow & PyTorch, 3D Printing

PROJECTS

Assembly Web Server *x86 Assembly, HTTP/SSL concepts*
Developed a web server in x86 assembly that used forking to respond to multiple concurrent GET and POST requests for CSE 365.

BonaFyde *Cadence/Solidity, HTML/CSS/JS, IPFS*   bonafyde.io
Developing an NFT smart contract using the ERC721Psi protocol for authenticating sneakers. In progress.

Paychex Reporter *Python*
Developed timesheet comparison desktop software to find overcharges in Paychex Timestables for Kronos Consulting, LLC.

Ecotivity, LLC. *Hugo, Swift, HTML/CSS/JS, iOS Core ML*
Developed an iOS app to gamify recycling around college campuses by providing rewards with monetary value.

Auxilio *Python, HTML/CSS/JS*   https://github.com/rnucuta/Auxilio
Personal research using ML and GTrends data to predict valley fever incidence rates in AZ

Predicting Orbital Resonance of 2867 Šteins Using the Yarkovsky Effect *Python*
https://emerginginvestigators.org/articles/
predicting-orbital-resonance-of-2867-steins-using-the-yarkovsky-effect/pdf
Published research in Journal of Emerging Investigators Jan 2021

ResearchKit *Javascript*
https://chrome.google.com/webstore/detail/researchkit/lcgjhfnkeejlbbamennaijghaodllbgj
Developed chrome extension to provide easier search experience for quick research.

AWARDS

Dean's List	Arizona State University, Since December 2021
National Merit Scholar	National Merit Scholarship Corporation, May 2021
US Presidential Scholars Program (top 0.01%)	The United States Department of Education, Jan 2021
Cryptorally 1st place	Arizona State University, Nov 2019
MIT LaunchX Entrepreneurship Program	Massachusetts institute of Technology, July 2019
Robotics Specialization Program	University of Pennsylvania, May 2018
AP Scholar with Distinction	College Board, May 2018
Eagle Scout	Boy Scouts of America, Mar 2018

CERTIFICATIONS

AWS Certified Machine Learning Specialist	Amazon Web Services, July 2023
AWS Certified Solutions Architect Associate	Amazon Web Services, June 2023
AWS Certified Cloud Practitioner	Amazon Web Services, June 2023