

RAYMOND NUCUTA

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EDUCATION

Arizona State University (ASU) Barrett Honors Program, School of Computing and Augmented Intelligence Tempe, AZ
BS in CS (Software Engineering Concentration) + MS in CS (AI Concentration) *GPA: 3.81* Aug 2021 - May 2025

BASIS Scottsdale High School Scottsdale, AZ
GPA: 4.87 August 2016 - 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*

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/](https://emerginginvestigators.org/articles/predicting-orbital-resonance-of-2867-steins-using-the-yarkovsky-effect/pdf)

[predicting-orbital-resonance-of-2867-steins-using-the-yarkovsky-effect/pdf](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

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| 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

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| 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 |