

Eegan Ram

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Education

College

Stanford University 2024 – 2028

BS Physics GPA: 4.11

Selected Coursework: PHYSICS120, APPPHYS205, MATH61CM, STATS200, CS229

University of Nevada, Reno 2020 – 2024

Dual/concurrent enrollment during high school

Selected Coursework: Quantum Mech (I and II), Differential Eqs., Linear Algebra, Multivariable Calculus

Programming experience

Work: Python (w/ Numpy, PyTorch, Django), C++, SQL, \LaTeX . Personal: Java

Selected work experience

Research

Research Intern: Molecular Imaging and Instrumentation Lab @ Stanford *Apr 2025 -*

Developing new techniques for PET scan randoms correction at the MIIL. Leveraged large compute clusters (Stanford Sherlock) to create and evaluate statistical models that remove noise from PET images.

Researcher: Soljagic Photonics Group @ MIT *July 2023 – October 2025*

Developed algorithms for simulating quantum systems with flow models. Developed an algorithm to use LLMs to optimize quantum circuit evaluation. Working on quantum tomography simulations.

RSI participant: CEE Research Science Institute @ MIT *Summer 2023*

Selected from 100/1700+ for the RSI. Developed algorithm to apply graph/stablizer states in quantum computing to quantum chemistry/molecular simulation problems; awarded top 10, selected for encore presentation.

Researcher: Weinstein Lab @ University of Nevada, Reno *January 2022 – October 2023*

Worked on experimental design and analysis for quantum sensing. Configured and wrote data acquisition hardware and software.

Software

Researcher: Elfass Lab @ University of Nevada, Reno *March 2024 – May 2024*

Helped build a database for secure data storage and analysis for the group's work in seismology with national labs.

Software developer: AI Camp Inc. *August 2021 – October 2023*

Worked on using Data Science to optimize and automate servers for AI Camp. These processes were done using Python in AWS, Docker, nginx, and airflow servers. Helped achieve 90% cost reduction in company server costs.

Data Analyst: AI Camp Inc. *October 2020 – June 2021*

Utilized Data Analysis techniques for market analysis, to reach customers for the company's marketing strategy. Used Python and libraries such as Pandas and Numpy to gather and analyze the company's data.

Software developer: LinkHS *Summer 2022*

Developed a frontend system that incorporates various APIs and ML classification models to find and recommend jobs and internships to teenagers.

Preprints

- Quantum sensing in the presence of pulse errors and qubit leakage.

Worked on analysis of classical sensing sequences (§2 & §3). [arXiv:2509.09874](https://arxiv.org/abs/2509.09874).

Volunteer and outreach

Vice President: Stanford Quantum Computing Assn.

October 2024 -

Developed custom materials for, organized, and taught a quantum computing class to ~ 100 high schoolers Spring 2025. Elected VP for 25-26, held quantum hackathons/workshops.

Financial Officer & Webmaster: Stanford STEM Nights.

October 2024 -

Built and manage website stanfordstemnights.org and facilitate/finance STEM activities for students.

Chair: Reno Youth City Council

November 2023 – May 2024

Elected chair for the Reno Youth City Council; advocated for local substance abuse policy changes.

Other

Teacher: Intro to Scientific Research

August 2023 – May 2024

Designed a curriculum to teach high school students the fundamentals of scientific research like data analysis with Python and R, how to use \LaTeX , how to write a paper and literature review, and give a scientific talk. Helped students complete research projects to present at the 2024 UNR undergraduate research symposium.

TA: Chinese I, American Literature, Advanced Physics

August 2022 – May 2024

Assisted the Chinese, Physics, and English depts. with teaching by conducting lessons, creating learning material, and grading homework/tests. Served for the Chinese & English departments in the 2022-2023 school year, and for the Physics department in the 2023-2024 school year.

Selected Awards

Davidson Fellow: awarded July 2024 (\$25k Scholarship for quantum research, 1 of 20 selected)

Boothe Prize Finalist: awarded April 2025

Research Science Institute Encore Presentation (Top 10): awarded August 2023

Congressional App Challenge 2nd Place: awarded January 2023

Presidential Volunteer Service Award: awarded November 2022

National Merit Scholar: awarded September 2023

Selected Test Scores

ACT: 36/36/36/36

AP Physics C/Bio/Calculus BC/Statistics/CSA/Chinese/Chem: 5