Ryan Nguyen

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Education

University of Virginia	Charlottesville, VA
Bachelors of Science, Computer Science	Expected May 2027 (Or Earlier)

- GPA: 4.0/4.0
- Relevant Courses: Data Structures and Algorithms I

University of Hawai'i at Manoa	Honolulu, HI
Undergraduate Engineering	August 2021 – December 2022

- GPA: 4.0/4.0
- Relevant Courses: Calculus I, Calculus II, Calculus III & IV

Roosevelt High School	Honolulu, HI
High School Diploma	August 2019 – May 2023

- GPA: 4.367/4.0
- Relevant Coursework: AP Research, AP Computer Science A, AP Calculus BC, AP Physics C, AP US History, AP World History, AP Seminar, AP Chemistry, AP Environmental Science, AP Economics, AP Psychology

Skills

C (Programming language), Java (Programming language), Python, Internet of Things (IoT), Machine Learning Algorithms, Electronic Circuits, 3D Computer-Aided Design (3D CAD), Data Analysis, Analytical Skills, Microsoft Office

Personal Projects

-Designed, programmed, debugged, published a personal resume website (*r-nguyen.com).

-Designed a machine learning algorithm to predict rainfall when given metrics such as temperature, humidity, and trends in the local region.

- Also created a data compilation tool used to gather historical weather data for training the neural network.

-Converted a conventional toaster oven into a smart device which could be used with an assistant like Amazon Alexa to turn on/off for a period.

-Designed and implemented frontend interfaces such as websites, client user interfaces (UIs), and other miscellaneous web design.

-3D Printed Items – Drafting and Design

- Wooden cart with marble countertop on wheels (Fusion360)
- Functional cog assembly to demonstrate variable gear ratios (Fusion360)

Experience

UVA USOAR Undergraduate Research	Charlottesville, VA
	September 2023 – May 2024

- Hired as research assistant to the UVA I-S^{2}EE lab (Civil Engineering)
- Utilize artificial intelligence to simulate infrastructure, perform analysis
- Learn finite element analysis via tools such as Ansys

UVA Engineering Bridge Program	Charlottesville, VA
	July 2023 – August 2023

- Attended UVA from July 12 – August 4 to take an engineering math class (APMA 1000)
- Built connections with relevant professors and faculty