

# ZACHARY VANDECAR

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## EDUCATION

Southern New Hampshire University (SNHU On Campus)	Manchester, NH
Bachelor of Science in Computer Science and Mathematics, Minor in Philosophy	August 2021- April 2025
GPA: 3.687	

## SKILLS

Relevant Courses: Calculus 2 • Linear Algebra • Combinatorics • Agile Software Engineering • Computer Security • Object Oriented Programming • Data Structure and Algorithms • Computer Networks • Computer Software and Operating Systems • Database Systems • Applied Statistics: Regression Analysis • Analysis of Algorithms

Skills: C++, C#, Python, SQL, R, Javascript, Natural Language Processing (NLP), Regression/Classification Modeling

Tools: Visual Studio, PyCharm, Wireshark, Android Studio, Arduino IDE, Firebase, Unreal Engine, Unity, Rstudio

## WORK EXPERIENCE

<b>In Person Peer Educator, Southern New Hampshire University</b>	January 2022 – April 2025
Practiced using various learning methods to help students understand their course material. Tutored for a large variety of courses	

## RELEVANT PROJECTS

<b>Junior Software Engineering Project</b>	Aug 2023 - April 2024
<ul style="list-style-type: none"><li>Full stack Webapp that finds evidence of AI use in writing</li><li>Using Agile framework in a team of three</li><li>Contributed particularly to the algorithm to detect AI using NLP and Logistic Regression</li></ul>	
<b>Undergraduate Research: Solving Instant Insanity with Programming, Supervisor: <a href="#">Dr. Fraser</a></b>	Nov 2021 - April 2022
<ul style="list-style-type: none"><li>Using programming and combinatorics to find solutions to solve a puzzle with <math>3 \times 24^3</math> possible orientations</li><li>Presented in Undergraduate Research Conference on April 6 2022</li></ul>	
<b>Data Analysis Quarto Report: Predicting Time Between Order and Food Delivery Using Real DoorDash Data</b>	Sept 2024 - Dec 2024
<ul style="list-style-type: none"><li>Report goes through data cleaning, data exploration and then tries different modeling techniques</li><li>Report uses cross-validation to evaluate model performance and hyperparameter tuning to improve models</li><li>Models explored: simple/multiple linear regression, decision trees, gradient boosting, and random forest</li></ul>	

## ACTIVITIES

Winner of 2023 "CETA Cup" Programming Competition, SNHU	March 24 2023
Math Club Member, Southern New Hampshire University	Sep 2021 – April 2025
Goffstown Food Pantry Network, Goffstown, NH	July 2019 - August 2021

## INTERESTS

- Tabletop games
- Philosophy
- Artificial Intelligence and Machine Learning
- Solving difficult problems with creative solutions