

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: 3.724	

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

In Person Peer Educator, Southern New Hampshire University	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 – More Details at: <https://zachvandecar.github.io>

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

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