

ZACHARY VANDECAR

Goffstown, NH | zev@inthemeantime.com | 603-660-4620

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: 3.629	

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 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 - Present
Practiced using various learning methods to help students understand their course material. Tutored for a large variety of courses	

RELEVANT PROJECTS

Junior Software Engineering Project	Aug 2023 - April 2024
--	-----------------------

- Full stack Webapp that finds evidence of AI use in writing
- Using Agile framework in a team of three
- Contributed 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
--	-----------------------

- Using programming and combinatorics to find solutions to solve a puzzle with 3×24^3 possible orientations
- Presented in Undergraduate Research Conference in April 2022

Data Analysis Quarto Report: Predicting Time Between Order and Food Delivery Using Real DoorDash Data	Sept 2024 - Dec 2024
--	----------------------

- Report goes through data cleaning, data exploration and then tries different modeling techniques
- Report uses cross-validation to evaluate model performance and hyperparameter tuning to improve models
- Models explored: simple/multiple linear regression, decision trees, gradient boosting, and random forest

ACTIVITIES

Winner of 2023 "CETA Cup" Programming Competition, SNHU	March 2023
Math Club Member, Southern New Hampshire University	Sep 2021 - Present
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