

# DIMITRI E. LAVIN

10011 Royal Colony Dr, Waxhaw, NC, 28173 | dimitrilavin@gmail.com | 704.441.1704 | www.dimitrilavin.com

## EDUCATION

### UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

Aug. 2018 – May 2022

Major(s): Computer Science and Mathematics

Major GPA: 3.389

## RELEVANT EXPERIENCE

### WEB APP DEVELOPMENT

Aug. 2021 – Present

*Online Project Portfolio (currently under development)*

- Developing a personal website that showcases different full-stack development projects including an online tic-tac-toe game, a program that solves sudoku puzzles, and a weather application (HTML, Javascript, CSS)
- Implementing a web socket for tic-tac-toe to connect two different devices to play against one another
- Writing a backtracking algorithm to find a solution to any sudoku puzzle if a distinct solution exists
- Applying OpenWeather API to a program that presents current weather conditions in an area that the user searches; including temperature, weather conditions (sunny, cloudy, rainy, etc.), humidity and wind speed

### COMPUTER SCIENCE TUTORING

Aug. 2018 – Present

*UNC Learning Center and Personal Computer Science Tutor (High School/Undergraduate Students)*

- Tutoring courses about data structures, introductory level programming, calculus and higher-level math
- Teaching students computer science principles including data types, objects, Boolean expressions, iterations, classes, inheritance, recursion, etc.

### MATLAB MODELING AND SIMULATIONS OF PHYSICAL SYSTEMS

June 2020 – Dec. 2020

*COVID-19 Mask Effectiveness Simulation*

- Completed a dynamic model for three masks where aerosolized particles travel across the screen into a barrier of thread particles (COVID-19 mask) that would filter the aerosolized particles
- Included random aerosolized particle movement, mask thread count, and electrostatic layers if needed

### WEBSITE FOR LOCAL MEXICAN RESTAURANT: VERA'S KITCHEN

April 2023 – Present

*Building and Running a Website for Vera's Kitchen (currently under development)*

- Building an HTML webpage that displays their current menu, catering options, and contact information
- Running the website for the business and updating it according to the needs of the owners, including new menu items, daily specials, and other information provided by the owners

## LEADERSHIP AND ADDITIONAL EXPERIENCE

### THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Aug. 2020 – Present

*Institute Council First Counselor*

- Helped the Institute Council President with organizing meetings and improving classes through feedback

### TEACHERS' ASSISTANT

Aug. 2021 – Dec. 2021

*Exploring Engineering, APPL 101*

- Teaching MATLAB modeling to students and grading MATLAB assignments for the professor

## CERTIFICATIONS, AWARDS, AND SKILLS

### INTERNATIONAL BACCALAUREATE DIPLOMA GRADUATE

Fall 2016 - Spring 2018

### ADDITIONAL SKILLS

- Fully fluent (conversational, reading and writing) in Spanish and Portuguese, Elementary proficiency in Mandarin, TypeScript, JavaScript, Java, MATLAB, C, C++, Python, CSS, HTML, Node.js, Assembly

## RELEVANT CLASSES

### MATHEMATICS

- Single/Multivariable Calculus, Differential Equations, Discrete Mathematics, Linear Algebra, Probability

### COMPUTER SCIENCE

- Introduction to Programming, Foundations of Programming, Data Structures, Exploring Engineering, Systems Fundamentals, Modern Web Programming, Computer Organization, Algorithms and Analysis, Bio algorithms (Python)