DIMITRI E. LAVIN

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EDUCATION

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

Major(s): BS Computer Science and BA Mathematics
Major GPA: 3.389

SOUTHERN METHODIST UNIVERSITY: LYLE SCHOOL OF ENGINEERING

Major(s): MS Computer Science and Artificial Intelligence
Major GPA: 3.5

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

MOBILE APP DEVELOPMENT April 2023 – Present

Job Search Mobile Application (currently under development)

- Implementing React Native to create a simplified job search for people perusing the web for jobs
- Applying JSearch API to compile a list of jobs in real-time from a variety of different jobs sites including LinkedIn, Indeed, Glassdoor, ZipRecruiter, BeBee, and more

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

LEADERSHIP AND ADDITIONAL EXPERIENCE

TEACHERS' ASSISTANT Aug. 2021 – Dec. 2021

Exploring Engineering, APPL 101

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

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS Aug. 2020 – May 2022

Institute Council First Counselor

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

CERTIFICATIONS, AWARDS, AND SKILLS

ADDITIONAL SKILLS

- TypeScript, JavaScript, Java, MATLAB, C, C++, Python, CSS, HTML, Node.js, React, React Native, MySQL, Assembly, fully fluent in Spanish and Portuguese, Elementary proficiency in Mandarin

RELEVANT CLASSES

- Foundations of Programming**,** Data Structures**,** Systems Fundamentals**,** Modern Web Programming**,** Computer Organization**,** Algorithms, Files and Databases, Artificial Intelligence, Machine Learning, Single/Multivariable Calculus, Differential Equations**,** Discrete Mathematics, Linear Algebra, Probability