

Edward D. Ng, Jr.

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Education

Bachelor of Science in Computer Engineering May 2019
New Jersey Institute of Technology, Newark, NJ

Bachelor of Science in Physics May 2015
The College of New Jersey, Ewing, NJ

Relevant Courses

- Digital Design
- Programming Language Concepts
- Computer Organization and Architecture
- Computer Engineering Design Lab
- Microprocessors
- Principles of Operating Systems
- Digital Systems
- Advanced Computer Architecture

Skills

Technical: Proficient with C++, PHP, Python, SQL, and Microsoft Office

Foreign Language: Limited working proficiency in Tagalog, elementary proficiency in Spanish

Projects

Neural Network Simulation

- Using Keras and Python, simulated a neural network to determine written numbers
- Neural layers were implemented with ReLU, and Sigmoid activation functions

Water Level Sensor

- Used C++ to detect the water level of a body of water through an Arduino board
- Utilized an ESP8266 board to send alerts to the user's phone if the water level fell outside of an acceptable range

Work Experience

Part-Time Teacher February 2016 – Present
Huntington Learning Center, Englewood, NJ

- Assists middle and high school students in math and physical sciences
- Tutors students in SAT and ACT math to increase clients' score

Substitute Teacher February 2015 – May 2015
Montgomery Township School District, Skillman, NJ

- Managed middle and high school classes across all subject areas

Leadership Experience

TCNJ Asian American Association May 2015
President

TCNJ Chinese Yo-Yo Club May 2015
President