Michael D. Trutko

3690 West 214th Street, Fairview Park, OH 44126
440-666-7908   mdtrutko@gmail.com   mdtrutko.com

CAREER INTERESTS

IT, Data Scientist, Software Engineer, Data Analyst

EXPERIENCE

Tru-Analytics/Trutko & Associates- 20360 Glendale Drive, Rocky River, OH 44116
Administrative Assistant, Property Maintenance (Jan 2022-Dec 2024)
I provided administrative support and technical assistance on consulting projects. I assisted on property maintenance on four residential properties.

Danny Boys- 20251 Lake Road, Rocky River, OH 44116
Head Chef, Head Line Cook, Line Cook (Aug 2016-Dec 2021)
I learned how to problem solve and to be quick on my feet. I managed others to ensure all employees worked together as a team. I communicated well with customers and kitchen staff.

Travel- *Student Ambassador, Community Service*
Washington, D.C. (June 2013) Selected from 200 students to lay a wreath on The Tomb of the Unknown Soldier in Arlington Cemetery.
Costa Rica, People to People (Summer 2014) Engaged with scientists to protect rain forest. Took part in cutting edge research on rain forest ecosystems. Painted school walls and played soccer with local students.
Galapagos Islands, The Sprout Experience (Summer 2016) Visited Charles Darwin's laboratory.
Kenya, The Sprout Experience (Summer 2018) Explored ecosystem and Maasai tribe in Lale'Enok near the Great Rift Valley. Searched for poachers with Maasai tribe in the Maasai Mara Game Reserve.

TECHNICAL SKILLS

Coding Languages: Java, Scratch, SQL, Python, C, Matlab, HTML

Operating Systems and Platforms:
Operating Systems: Windows, Apple, Linux, Orbis OS, Codename Horizon
Platforms: Anaconda, Spyder, JetBrains, Eclipse, Scratch, Cocalc

Works Well Other Developers on Projects
Group Projects: Hash Tables, Games, Analyzing Data, Creating Artificial Terrain.
Collaborated with others in a company project for Martian Skies Industry to map out over 1,000 lunar craters. We then applied a mathematical model to each crater to create artificial terrain.

Capable of Developing and Managing Projects Independently
Created interactive Wireframe prototype using Balsamiq for an app called Mike's Auto Garage.
Taught a class on Creational Design Patterns to introduce a new concept in Baldwin Wallace's Software Engineering course. The class covered the three main points of CDP, the five main types of CDP and the optimum time to implement the five main types of CDP in programming.
Ability to use multi-step approaches to sort and analyze data, manipulate the data using a programming langauge, and display output in various formats.

Experience in Repair, Debugging, and Maintaining Security
Personal experience with the repair, resolution of technical issues, and maintenance of family and friends' phones, laptops, printers, software upgrades, and computer set up.
Uses multifactor authentication on personal devices.
Familiar with encryption and hash tables for usernames and passwords.

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SAMPLE PROJECTS AND ACTIVITIES

Scratch Madlib Game — *I created an interactive project in Scratch. The goal was to help young children learn in a fun way using a Madlibs theme. The version had sound, music, and visuals for each story.*

Python Madlib Game — *I created a Python project to make an interactive game to help young children learn using a Madlibs theme. This version did not have sound or graphics.*

Operation Research Project (Ovation) — *I collaborated with two other students to alleviate a hospital call center problem by analyzing the optimal hours of the call center. A critical issue was to determine how many bilingual workers were needed as part of the call center staff.*

System Requirements and Testing Application (Wireframe Outline) — *I used Balsamiq to create an application called Mike's Auto Garage in order to learn about UX design and the importance of the user. It was an interactive outline and in the prototype stage.*

Data Structures — *I collaborated with two other students to create hash tables for Linear Probing, Quadratic Probing, and Separate Chaining. Using the tables, we analyzed the loading factor and efficiency of our code compared to the built-in Java library. Our objective was to evaluate the efficiency of our hash table compared to the Java library.*

Upgrading Windows PCs — I was given two computers with Windows 7 in 2024 and used an open-source emulator to upgrade the PCs to Windows 10. I set up the profile, and made other repairs and adjustments.

(See website mdtrutko.com for additional information on projects.)

EDUCATION

Rocky River High School- 20951 Detroit Road, Rocky River, OH 44116
 High School Diploma (June 2017)

Baldwin Wallace University- 275 Eastland Road, Berea, OH 44017
 B.S. Applied Math/Computer Science- (Projected Dec. 2025 Graduation: Covid issues, working, and starting a family)

PERSONAL INTERESTS

Family Events and Activities
Upgrading PC, Video Games, Coding, UX Design
House Projects, Gardening
Exercise, Cleveland Monsters Hockey Fan
Working on Cars, Viewing Vintage Cars and Trucks