

Zachary Morgan

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PROFESSIONAL SUMMARY

Analytical mechanical engineer with experience in Python, SQL, and MATLAB for data processing, visualization, and modeling. Strong foundation in problem solving, control systems, and automation. Passionate about applying data-driven thinking to improve processes and support technical decision-making.

EDUCATION

New York University, Tandon School of Engineering, Brooklyn, NY 12/2024
Bachelor of Science, Mechanical Engineering,

AWARDS AND CERTIFICATIONS

Best Senior Design Commencement Award 05/2024
• Designed an automated pill organizer that enhances medication accessibility for individuals with motor disabilities

Order of the Engineer Member 04/2024

Illinois State Robotics Champions, FIRST Tech Challenge 2019

FIRST Tech Challenge Worlds Participant 2019

TECHNICAL SKILLS

Data Analytics Tools: Python (pandas, matplotlib, numpy), SQL, Excel, MATLAB
Programming & Workflow: Git, VSCode, Jupyter Notebook, command-line
Other Languages and Tools: HTML, CSS, JavaScript, React, Next.js
Mechanical Engineering Tools: Fusion 360, AutoCAD, Solidworks, Onshape, Ansys, CFD

EXPERIENCE

Mechanical Engineer, Goldman Copeland, New York, NY 06/2025-Present
• Assist in the design and drafting of HVAC systems using AutoCAD/Revit, including ductwork, piping, and equipment
• Collaborate with multidisciplinary teams to collect, interpret, and report technical data used in design decisions

Project Management Intern, Constellation Software, New York, NY 06/2024-08/2024
• Implemented data-driven risk management system in Confluence, enhancing project tracking and team collaboration
• Led scrum meetings and improvised backlog management using Jira, optimizing development workflows
• Developed strong analytical, leadership, and agile project management skills

Maker Intern: Co-Op Camp, Mamaroneck, NY 06/2022-08/2022
• Led a group of children through engaging camp activities, ensuring high participant satisfaction
• Improved comprehension of engineering concepts by incorporating innovative multimedia tools
• Optimized workflows to reduce staff workload and enhance overall productivity

PROJECTS

Game Recommendation Software
• Designed a Python-based recommendation engine using data from IGDB API to suggest games by genre and rating
• Built data pipeline to clean, filter, and display results dynamically in terminal
• Applied data filtering, aggregation, and logic in Python to generate user-specific recommendations

ADDITIONAL EXPERIENCE

Summer Engineering Program Participant, University of Illinois at Chicago 08/2019
• Exposed to various engineering disciplines through team building activities

Immigration Justice Civic Lab Community Service 2018-2019

Men's Varsity Tennis Player 2015-2019

Robotics Club Team Member 2016-2019

Digital Media Academy AI and Machine Learning Participant, University of Chicago 07/2019
• Reached an understanding of how to apply machine learning to find patterns or solve problems

USTA Tournament Tennis Player 2013-2021
• 10 hours per week in addition to weekend tournaments

Robotic Design Team Member 09/2021-05/2022
• Designed and assembled robot components using Onshape in teams, achieving 90% functionality
• Measured parts and proposed modifications for future designs