

PRANAY GUPTA

+1(248) 843-3255 ◇ gupranay@umich.edu ◇ Troy, MI

linkedin.com/in/pranay-gupta-31ab4b212 ◇ github.com/gupranay ◇ pranaygupta.dev

EDUCATION

UNIVERSITY OF MICHIGAN - Ross School of Business

Ann Arbor

Bachelor of Science in Engineering – Computer Science

May 2025

Bachelor of Business Administration GPA: 3.68 / 4.00

- Course Highlights: EECS 281 (Algorithms and Data Structures)

SKILLS

Languages C++, Matlab, JavaScript, Typescript, HTML, Java, Python

Tools Git, Excel, R Studio, Basic Understanding of Operating Systems

PROJECTS

University of Michigan

Ann Arbor

Stock Market Simulator - C++

January 2023

- Created a stock market matching algorithm using Priority Queues
- Implemented a streaming algorithm to track the most optimal trades
- Developed an efficient method of maintaining a running median of trades for every timestamp
- Implemented member functions for Binary, Sorted, and Pairing Priority Queues

Ship Routing Algorithm - C++

February 2023

- Designed and implemented a ship routing algorithm that finds the shortest path between two points on a map, accounting for different levels and obstacles
- Used command-line arguments and file I/O to parse user input and read in map data
- Developed algorithm using C++ and STL library, including vector and deque data structures
- Implemented Breadth-First Search (BFS) and Depth-First Search (DFS) for searching algorithm

EXPERIENCE

TROY SCHOOL DISTRICT BOARD OF EDUCATION

Troy, MI

School Representative of International Academy East

May 2019 - May 2021

- Presented issues from high school to the Troy Board of Education in order to receive help and feedback
- Analyzed business decisions made by the board and met with the principal to discuss their implications
- Recommended by teachers and staff to be the sole representative for IAE during board meetings

FIRST ROBOTICS TEAM 4384 BENZENE BOTS

Auburn Hills, MI

Business Leader of Team 4384

August 2017 - May 2021

- Drafted business plans and presentations for sponsors and raised over \$5,000 in donations
- Worked with the high school principal to host events and recruit over 90 team members over 3 years
- Created and taught interactive lessons for other team members on how to code, utilize machinery, and safety practices
- Developed and led a virtual STEM camp for over 30 middle school students

EXTRA-CURRICULAR ACTIVITIES

- **V1 - Startup Club**, Cohort and Leadership Team Member

January 2023 - Present

- **Michigan FinTech**, Algo - Trading Team Developer

October 2022 - Present