

# NATHAN NAKKAPALLI

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**University of Michigan**, Ann Arbor, MI | **College of Engineering** c.o. 2024/2025

**Major: Computer Engineering B.S.E & Minor: Physics** | Cumulative GPA: 3.78

Fall 2022 Coursework: EECS 281 (Advanced Data Structures & Programming), EECS 270 (Logic Design), EECS 215 (Circuits), Entrepreneurship Hour, Discrete Math, Programming & Intro Data Structures

Hobbies: basketball, trumpet, cybersecurity (“breaking” technology)

## HOW I CAN HELP YOU:

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**Technical Proficiency:** I have experience working with low-level languages like C/C++ to design elegant and scalable programs to solve problems and projects

Completed UMICH’s EECS 280 (Intro to Programming and Data Structures) course Apr. 2022

- Implemented a Euchre game modularly using classes and runtime polymorphism and wrote my own test cases for the different classes, allowing my Euchre program to perform correctly for edge cases

C lectures/problem sets in Harvard’s CS50x course Dec. 2021

- Implemented a spell-checker program in C that hashed words and traversed through an array of linked lists loaded with dictionary

Completed ENGR101 (Introduction to Computers and Programming) with A+ grade Oct. 2021

- Implemented MATLAB program that read environmental data to produce multiple visual plots and evaluated data given certain restrictions

Personal projects including Prime Factorizer: <https://github.com/nat3058>

- Can factorize 9 figure numbers with ease using recursion

**Communication & Coordination:** I can work with and learn from my manager and team members to get deliverables done

**Interned at Over Zero** | Qualitative Content Coder Nov. 2021 – Mar. 2022

- Code (categorize) qualitative survey data (350+ survey responses) using Dedoose analytics software
- Achieved sufficient levels of intercoder reliability by meeting with a colleague and discussing our reasoning behind our categorizations, allowing our client to analyze survey data accurately

**Research & Execution:** I can write reports/memos and present information to teammates and clients in an approachable and understandable way

AP Research | Researcher and Self-published (<https://nat3058.github.io/research.pdf>) May 2020

- Conducted literature review, executed survey research methods, and analyzed the results
- Culminated into a formal 30-page paper regarding marching band retention

Online Tutoring: Weekly volunteered tutoring elementary/middle school students Mar. 2020 – Nov. 2021

- Reinforced reading/writing/math skills through Zoom by creating my own lesson plans/interactive games & using Quizlet resources, allowing the kids to strengthen academic abilities despite pandemic

### Campus Involvement/Other:

Spark Electric Racing – UMICH Electric Motorcycle Project Team | Software Team 2021 – Present

MSAIL (Michigan Student Artificial Intelligence) | Member and Mentee 2021 – Present

Creativity in the Wayfair Employer Challenge (Honorable Mention) March 2022

College of Engineering Dean’s Honor List 2021 & 2022

COR Capture the Flag Competition | Participant 2022