

# SACHIN VIJAYARAJ

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## EDUCATION

University of Michigan 2021-2025  
GPA 3.67/4.0  
*Bachelor of Science in Computer Science* *Ann Arbor, MI*  
Sophomore (Have taken Data Structures and Algorithms)

Illinois Mathematics and Science Academy 2018- 2021  
GPA 4.0/4.0 *Aurora, IL.*  
High School Diploma, Coursework in Machine Learning,  
Computational Science, AP CS A

- Developed Binary Decision Tree algorithm and Multi-layered perceptron, programmed physics simulations utilizing Monte Carlo method
- Analyzed datasets of up to 10,000 points using SciKit Python libraries and TensorFlow, used random forest, linear regression, and K-means clustering algorithms, performed NLP sentiment analysis

## EXPERIENCE

NGD Enterprise Summer 2021  
Summer Engagement /Internship

- Researching blockchain and stable coin technologies, preparing whitepaper for algorithmic stable coin
- Drafted NFT contracts with ERC-721 Ethereum protocol, implemented pinata IPFS file storage, deployed on virtual blockchain using Ganache and Truffle
- Published articles on Medium publication InsiderFinanceWire

## ACTIVITIES

FRC Robotics Team #2022, *Senior Member* 2018-2021

- Collaborated with and organized team functions in programming sub-team
- Programmed pneumatic pistons and vision systems on Java codebase

Quantitative Investment Society Current

- Joint effort in small group of 3 to develop execution system for in-house trading algorithm, received weekly feedback from group members
- Used Interactive Brokers API, by programming a Python wrapper, to execute real-time trade orders from database calls

Wolverine Soft Studio Current

- Worked in large team of more than 30 members to release a freely available game, Bloom
- Created game assets and game environments in 3D using Blender, as well as 2D sprites in Adobe Illustrator
- Took elements of level design and game theory to plan and create compelling game levels, initiated level ideas
- Reviewed weekly work with smaller art and design team meetings, initiated improvements in designs and shared thoughts

## VOLUNTEER

Free Geek Chicago, *Project Manager* 2019-2020

- Led small groups in repairing computer systems, installing Linux distributions, and properly formatting hardware, organization has diverted over 27,000,000 lbs of waste from landfills
- Directed and coordinated members in teardown and recycling of various electronic waste

## SKILLS

**Languages:** Java, C#, C++, Python, HTML, CSS, JS, ReactJS, Flask  
**Office Applications:** Excel, Access  
**Creative Suites:** Blender, Photoshop, Illustrator