

Nitin Polavarapu

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EDUCATION

Michigan State University

Master of Science in Computer Science

December 2025

Bachelor of Science in Computer Science

December 2024

Honors: Dean's list

GPA: 3.86/4.0

EXPERIENCE

Undergraduate Teaching Assistant

Jan. 2023 – Present

Michigan State University

East Lansing, MI

- Taught concepts of C++, Object-Oriented-Programming, Data Structures, and Algorithms to over 200+ students
- Collaborated with faculty, creating practice exams for students, resulting in a 10% increase in average exam scores

JET SSA (IGNITE Rotational Program)

Sep. 2022 - Present

Jackson National

Lansing, MI

JET SSA / Cloud Engineer Associate

Mar. 2023 - Present

- Mentored new interns by providing code reviews, writing educational resources, and by acting as scrum master
- Orchestrated the deployment and optimization of Azure cloud infrastructure using Terraform, YAML workflows, and CI/CD pipelines, resulting in a 50% reduction in deployment time and improved scalability.
- Developed and implemented a method to monitor the expenses of over a 100+ resource groups in Azure, through the use of Terraform modules, resulting in improved budget management
- Designed an automation script installing a security software to over 100+ Azure windows/linux virtual machines, reducing over 20 hours of installation time

JET SSA / InfoSec Associate

Jan. 2023 - Mar. 2023

- Leveraged power automate to automate Jira ticket creation, saving developers 20+ minutes daily
- Created a security script deactivating Microsoft accounts via Splunk, reducing vulnerability time by 15+ minutes
- Used Splunk Processing Language to collect and graph data to analyze real time trends

JET SSA / Software Engineering Associate

Sep. 2022 - Dec. 2022

- Developed a user application for online submissions of backdate requests with Java, HTML/CSS, JSF Framework, and MySQL, saving associates 15+ minutes per request
- Tested code through unit testing created with JUnit to detect errors early in the development process
- Applied concepts of scrum alongside the development life cycle to successfully deliver the application

PROJECTS

SpartaHack 9: Apollo-Vault | TypeScript, HTML, CSS, Python, Solidity, React, Firebase, Docker

Jan. 2024

- Developed a full-stack web application serving as a universal health record ledger, focusing on the facilitation of patient medical records across hospital systems allowing for improved patient care
- Utilizes facial recognition to authenticate users by creating a unique hash value that is verified on the polygon blockchain and stores health records on Firebase real time database for enhanced security

Interactive Sudoku Game | C++, XML, WxWidgets

Oct. 2023

- Worked in an Agile based team to design and develop a interactive sudoku game consisting of three levels
- Implemented a user interaction model where players command a 'Sparty' character to place numbers on the grid
- Uses XML parsing to import game levels, populate the Sudoku board with digits, and validate solutions

TECHNICAL SKILLS

Languages: Python, C++, Terraform, HTML/CSS, JavaScript, YAML

Developer Tools: Git, GitHub, Gitlab, VS Code, PyCharm, CLion, Eclipse, Visual Paradigm

Knowledge: OOP, UML, Data Structures and Algorithms, Azure, GCP, CI/CD, Docker, Jira, Agile, Scrum

RELEVANT COURSE WORK

Introduction to Programming I/II (Python/C++), Computer Organization and Architecture (C/C++), Algorithm and Data Structures (Python), Object Oriented Programming (C++), Algorithm Engineering (Python), Computer Systems, Database Systems (currently), Web App Architecture (currently), Information Management and the Cloud (currently)