

NAVEENJOHN PREMKUMAR

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EDUCATION

University of Michigan, College of Engineering, Ann Arbor, MI

Expected May 2025

Bachelor of Computer Science, GPA: 3.72

Courses: Programming & Data Structures, Discrete Mathematics, Data Structures & Algorithms, Foundations of Computer Science, Data Processing, Computer Architecture and Organization, Web Systems, Advanced Data Analytics

EXPERIENCE

Siemens Digital Industries Software, Remote, *Software Engineer Intern*

May. 2023-Aug. 2023

- Developed 2 production level features in C++ for NX CAM, increasing performance by 20%..
- Worked with an Agile team of developers to plan and coordinate upcoming tasks using the SAFe framework.
- Manufactured 20+ tests to ensure top performance for 10+ companies part production.

Event Setup, Ann Arbor, MI, *Staff Member*

Feb. 2021-Present

- Applied creative skills to determine multiple optimal setups to please hundreds of customers daily.
- Managed and organized AV cables and electronics for projectors and TV's.

EXTRACURRICULARS

Michigan Hackers, Ann Arbor, MI, *Machine Learning, Web-Backend*

Sep. 2022-Present

- Learned different methods of machine learning like neural networks and logistic regression and applied skills with initial projects.
- Applied AWS and Docker to create an Apache server to host a website.

Michigan Data Science Team, Ann Arbor, MI, *Member*

Aug. 2023-Present

- Utilized machine learning to detect possible network intrusions and categorize cyber attacks

DESIGN, Ann Arbor, MI, *Social Media Manager*

Aug. 2021 -Present

- Document weekly events and programs to inform 30+ members.
- Manage organization's Instagram to get member feedback and interact with them to increase member count.

PROJECTS

Solar Power Rain Gauge, *Arduino*

- Cooperated with peers to assemble a prototype rain gauge that calculated the amount of rainfall for usage in impoverished nations.
- Analyzed rainfall from a container, wirelessly displayed it on a LED screen using Bluetooth and circuits.

K-Means Clustering, *MATLAB, C++*

- Utilized the K-means machine learning technique to categorize datasets, analyze for centroids, and visualize on a 3D scatter plot.

Word Scramble Game, *ReactJS*

- Constructed a website where the user attempts to unscramble letters using ReactJS.
- Used SASS to style the interface into a presentable format.

Instagram Clone, *Flask, ReactJs, REST API, Python, HTML, AWS, SQLite*

- Created a static site generator using Python and Jinja2 to output HTML files.
- Wrote Shell Scripts to generate, test, and clean up the programming environment
- Implemented Flask and SQLite to store site info using cookies. Hosted website with AWS

SPECIALIZED SKILLS

Programming Languages: Java, Python, C++, MATLAB, HTML, JavaScript, Kotlin, SQL, Shell Script, R

FrameWorks: SolidWorks, Adobe Creative Suite, Photoshop, Microsoft Excel, Microsoft Access, Android Studio, NX CAM, Polarion, Perforce, React.js, Git, REST API

Operating Systems: Windows 10, Mac OS 9, Linux (Ubuntu)

Foreign Languages: Spanish (Michigan Seal of Biliteracy), Tamil (Spoken at home)