# Nitish Maindoliya

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## EDUCATION

**Michigan State University, College of Engineering | Honors College**

*Bachelor of Science, Computer Science* — Aug 2022 – Dec 2025

**GPA: 4.0**; Honors student; Dean's List: all semesters

**Vrije Universiteit, Amsterdam (Study Abroad)**

*Bachelor of Science, Computer Science* — Feb 2024 – Jun 2024

- Implemented a real time image classifier ANN using PyTorch, TensorBoard and OpenCV achieving 97.82% accuracy
- Crafted an NLP pipeline, leveraging Selenium, spaCy, VADER and RoBERTa for advanced contextual classification

## PROFESSIONAL EXPERIENCE

**Enviroweather, Department of Geography and Spatial Sciences, MSU** — East Lansing, Michigan

*Web developer* — Aug 2022 – Present

- Collaborate with a team of 7+ people to develop and maintain multiple web applications including legacy codebase ensuring stability while integrating modern best practices
- Fabricate components central to the website's functionality, employing D3.js for complex visualizations of 50+ weather and crop models, along with ARIA and WCAG-compliant tools to ensure accessibility
- Optimize React components and webpack bundle to uplift performance while maintaining backward compatibility
- Identify and address system vulnerabilities through unit testing, coordinate with backend team to enhance reliability

**DSquare Technologies** — New Delhi, India

*Contracted web developer* — Mar 2022 – Jun 2022

- Streamlined Angular development workflow by creating custom utilities, including development/testing proxies
- Generated dynamic infographics using Chart.js to visualize recursively retrieved raw data from 10+ REST endpoints

**Dasmic LLC** — Houston, Texas

*Software engineer intern* — May 2021 – Oct 2021

- Eliminated redundant code by instead utilizing thread pools and batching in C++, accelerated data processing by 58%
- Constructed advanced APIs using Express.js for robust user authentication, upgraded security against exploits like session hijacking and cross site scripting and centralized onboarding process for better user experience
- Overhauled user interface of key pages and improved performance benchmarks by 37% across all platforms

## SELECTED PROJECTS

**AuthFrame** — Aug 2024 – Present

- Engineering a modular Lucia-auth authentication boilerplate library for Next.js with support for session tokens, JWTs, OAuth, credentials-based login, email verification, session management, multi-factor authentication
- Designing it for rapid implementation and seamless authentication with an easy-to-configure single-JSON-file setup

**Particlize** — Jun 2024 – Jul 2024

- Developed an open-source JS particle system library using Canvas API and WebGL for dynamic, interactive particles
- Built to render thousands of particles all while supporting smooth, customizable animation sequences

**GitFixer** — Dec 2023 – Feb 2024

- Created a SaaS tool leveraging GitHub's API to automate rectification of missing commits in repositories
- Deployed on a Google Cloud backend, featuring a robust architecture for commit queuing and scheduling

## TECHNICAL SKILLS

**Programming Languages:** C++, C, Python, Java, C#, Javascript/Typescript, Assembly, SQL
**Frameworks:** React, Next.js, Angular, Vue.js, Redux, Django, Prisma, DrizzleORM, MongoDB
**Others:** Tenserflow, PyTorch, Google Cloud, Firebase, Azure, Git, Unix