Arnav Gupta

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EDUCATION

Michigan State University   **May 2026**
Bachelor of Science in Computer Engineering, GPA: 3.8   *East Lansing, MI*

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, HTML, CSS, C/C++, SQL
Technologies and Frameworks: ReactJS, NextJS, NodeJS, Google Firebase, PostgreSQL, Git, TypeORM, GraphQL
Concepts: Software Development, Data Structures and Algorithms, Scrum Methodolgies, Full Stack, Databases, Product Management, Frontend, Backend, System Design, Microprocessors & Digital Systems

EXPERIENCE

Incoming Software Engineering Intern   May 2025 – Aug. 2025
Zebra Technologies   *Lincolnshire, IL*

Software Engineering Intern   June 2024 – Aug. 2024
ShopCore Properties, A Blackstone Portfolio Company   *Chicago, IL*
- Architectured a full-stack predictive analytics dashboard using **Next.js**, **Node.js**, and **REST APIs**, integrating a scalable backend that processed **1000+ data points** from Snowflake via **Databricks**, delivering real-time insights
- Engineered a scalable **ETL pipeline** that automated data ingestion from **3+** enterprise sources into **Snowflake**, reducing data processing time by **40%** and improving accessibility for company-wide reporting
- Advanced forecast accuracy by **25%** via fine-tuning Linear Regression and Time Series Models with **Python**, Scikit-learn, and MLflow in Databricks, elevating projections of visitor trends across 5- and 10-year horizons

Software Engineer   Jan. 2024 – Present
Michigan State University FourPoint   *East Lansing, MI*
- Spearheaded the redevelopment of the FourPoint Official Website for **3,000+** students, leveraging **Next.js** for dynamic UI, **Apollo Server** for state management, and **PostgreSQL** to enhance data integrity and scalability
- Achieved **100%** data retrieval accuracy by migrating MySQL data to PostgreSQL, designing optimized **database schemas**, and developing an dashboard for streamlined display, editing, and management of student information
- Minimized error-related disruptions by **80%** by implementing **GraphQL APIs** with robust error handling, integrating an automated **CI/CD** pipeline, and ensuring seamless front-end and back-end communication

Project Director   Sept. 2023 – Present
Imagine Software Club at MSU   *East Lansing, MI*
- Directed an internship-style program for over **250** students, organizing teams for real-world software projects from both peers and companies, ensuring **100%** client and member satisfaction through effective project management
- Managed the development of **20+** projects, including web and mobile applications using **React**, **Next.js**, and **Google Firebase**, and machine learning with **PyTorch**, boosting technical proficiency and project outcomes
- Optimized project workflows with industry-standard check-ins, using management and design tools like **Figma** and **GitHub**, and partnered with **Slalom**, **LinkedIn**, and **Humana** for impactful presentations and connections

Undergraduate Research Assistant   Aug. 2024 – Jan. 2025
Michigan State University College of Engineering   *East Lansing, MI*
- Elevated machine learning model accuracy by over **20%** through precise annotation of blueberry images, significantly improving fruit quality assessment and optimizing model performance through rigorous tuning
- Accelerated data processing time by **40%** and enhanced detection accuracy by **30%** by developing automation scripts and advancing optical sensing and machine vision techniques for precision agriculture and food inspection

PROJECTS

A.I Club Website | **Website** | *Typescript, Next.js, GraphQl, TypeORM, PostgreSQL, Node.js*
- Revamped the A.I Club website with a team of **5**, optimizing data usage and query efficiency by **25%** through **PostgreSQL** and **TypeORM** integration, including **schema design** and **GraphQL API** development

REMedy | **Github** | *Typescript, React-Native, Expo, Node.js, Google Firebase, OpenAI, HealthKit*
- Boosted healthy sleep practices by **20%** through a mobile app integrating **Apple Watch HealthKit** for sleep tracking, social competition, and an AI-powered chatbot for personalized insights and real-time news updates