

# Aneesh Kapole

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## EDUCATION

### Michigan State University

*Bachelor of Science in Computer Science, Minor in Business — GPA: 3.8*

**Coursework:** Data Structures and Algorithms, Algorithm Engineering, Big Data Analysis, Database Systems, Object Oriented Programming, Probability and Statistics for Engineers

East Lansing, MI

Aug. 2022 – May 2026

## EXPERIENCE

### Data Engineer / Cybersecurity Analyst Intern

Sept. 2025 – Present

*Michigan State University, McKesson*

East Lansing, MI

- Designed and implemented a data-driven decision support system to analyze firewall rules using Python-based analytics and scoring algorithms
- Built an ETL pipeline to ingest, join, and transform data across 4+ tables, preprocessing and scoring 6,000+ rules with 100,000+ individual data points
- Reduced data pipeline processing time from 40+ minutes to 5 minutes (8x speedup) through multithreading and query optimization
- Developed interactive dashboards and reports using PowerBI to visualize risk metrics, system health, and data quality trends
- Performed exploratory data analysis and data visualization using Python (pandas, Matplotlib, seaborn) to identify trends and anomalies
- Wrote SQL scripts and Python-based job queues to re-score and update data in real time upon attestations and rule changes
- Developed a Flask-based REST API for user management and database communication

### Freelance Full Stack Developer

Dec. 2025 – Present

*Batter Up Bakery*

Farmington Hills, MI

- Architected and deployed a full-stack web application using React, Next.js, and PostgreSQL, serving as the business's primary digital platform
- Integrated Stripe payment APIs and built a customer management system handling user data and secure transactions; deployed on Vercel with CI/CD

## PROJECTS

### Super Bowl Prediction Model | Python, MongoDB, sklearn, pandas, BeautifulSoup

Jan. 2025 – Present

- Built a data ingestion pipeline scraping 1,000+ rows from 3+ web sources using BeautifulSoup, with automated cleaning and loading into MongoDB
- Designed and populated a MongoDB database with 10+ seasons of structured offensive and defensive team data for downstream analytics
- Developed 5+ predictive models using apriori algorithms and decision trees, achieving 90% accuracy in identifying Super Bowl bound teams from regular season data

### SwiftFlow | Roboflow, TensorFlow, OpenCV, YOLOv8, Python

Feb 2025 - Present

- Wrote and trained a machine learning model to recognize 5+ hand gestures in real-time, simulating 100+ keyboard shortcuts and precise mouse movements using Roboflow, TensorFlow, OpenCV, and YOLOv8
- Presented to a panel of judges and industry experts at SpartaHack 10, receiving praise for innovation and effectiveness

## TECHNICAL SKILLS

**Languages:** Python, SQL, C/C++, C#, Java, JavaScript, WebAssembly

**Data & Databases:** PostgreSQL, Snowflake, MongoDB, SQL Server, SQLite3, Data Modeling, Data Warehousing

**Back-end & Tools:** ETL/Data Pipelines, PowerBI, Flask, REST APIs, Git, JIRA, CI/CD

**Frameworks:** React, Next.js, Node.js, Astro, TailwindCSS

## EXTRACURRICULAR

### Alpha Phi Omega - Beta Beta Chapter

Feb 24 – Present

*Secretary*

East Lansing, MI