

# Yash Dumpeta

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## EDUCATION

### University of Michigan - College of Engineering

B.S.E. in Computer Science

Ann Arbor, MI

April 2026

**Relevant Coursework:** Artificial Intelligence, Computer Networks, Database Management Systems, DSA in C++, Computer Organization in C, CS Theory, Data-Oriented Programming in Python, Discrete Math, Computational Linear Algebra in Julia

## EXPERIENCE

### University of Michigan - Information and Technology Services

Software Engineering Intern

Ann Arbor, MI

May 2025 - Present

#### Utilidata

Machine Learning Intern - Student Researcher at the Perot Jain Tech Lab

Ann Arbor, MI

Jan 2025 - Present

- Developing a scalable ETL pipeline to ingest high-volume telemetry from Karman GPU—a software-defined AI platform powered by an NVIDIA chip—into an Apache Parquet database for Utilidata’s upstream ML workflows for grid analytics.
- Implementing a grid-edge classifier that identifies power-consumption signatures in near-real time, to empower grid operators and electric utilities with faster, actionable insights on the electric grid

#### InceptEV

Data Scientist - Student Researcher at the Perot Jain Tech Lab

Ann Arbor, MI

August 2024 - December 2024

- Conducted a data validation study of simulation accuracy by comparing real-world data against software outputs
- Collaborated on Julia and Python codebase to implement a data pipeline for 40+ hours of data using Pandas, processing raw OBDLink data from Ford Mach-E EV, and developed a custom simulation process tailored to Ann Arbor driving conditions

#### Spire Investment Partners

Technology and Cybersecurity Intern

McLean, VA

June 2024 - August 2024

- Spearheaded multiple projects simultaneously from initiation to completion, leveraging daily standup meetings, smart deadlines, and effective project management practices within the SDLC to ensure timely delivery and strategic alignment
- Reduced onboarding time by 40% by developing a centralized web portal that automated 3 steps, by implementing RESTful APIs and automated workflows that streamlined approval processes and improved efficiency and robustness
- Designed and implemented a secure, scalable employee directory database to centralize data for 200+ clients

## PROJECTS

**UMazing:** *Next.js, Node.js, React, TypeScript, Python, PostgreSQL, Railway, Vercel*

[App](#) | [Devpost](#)

- Collaborated with a team of developers at MHacks 24 to develop and pitch an AI-powered academic advisor that enhances student decision-making for course selection and academic planning through an analysis of an inputted course audit
- Co-led backend development, processing and analyzing user-inputted PDFs of student audit checklists, and developed Python and Node.js scripts to scrape and parse 400+ EECS courses and flex-techs from school websites and Google Sheets
- Implemented data caching system for previously uploaded audit checklists using PostgreSQL and custom-generated UUIDs
- Developed API routes between the frontend and backend, processing and converting PDF buffers to images for analysis

**Selectaraunt:** *Next.js, Node.js, TypeScript, React.js, TailwindCSS, Supabase, Socket.io, Leaflet, YelpAPI*

[Link](#)

- Collaborated with a team of developers to develop a real-time multiplayer web app that helps users vote on and discover new restaurants collaboratively. Allows users to create custom settings to filter YelpAPI restaurant responses to swipe on
- Integrated Socket.IO for real-time communication between user clients, allowing for synced voting and result updates
- Developed API endpoints to handle lobby creation, player joining, and lobby state updates, to ensure data consistency
- Implemented a dynamic, swipeable card-based layout to display restaurant options using the react-tinder-card library

**recalld:** *Python, Django, JavaScript, React.js, MySQL*

[Github Link](#)

- Engineered a dynamic and interactive full-stack flashcard app tailored to facilitate learning and information retention through customizable decks and cards, efficient active recall, and spaced repetition
- Developed a scalable backend with Django's MVT-Architecture and REST framework, implementing custom API endpoints for deck and card management, while optimizing database queries with Django's ORM and MySQL.
- Integrated JWT token-based authentication and efficient data serialization, ensuring secure sessions and data privacy

**Piazza Post Classifier:** *C++*

- Implemented a Multi-Variate Bernoulli Naive Bayes Classifier to categorize Piazza forum posts automatically
- Developed a bag-of-words model and training system to process CSV files of labeled posts for text analysis
- Achieved a score of 97% for a high classification accuracy in predicting post-categories of datasets of over 2500 posts.

## SKILLS

**Languages:** C++, C, Python, JavaScript, Java, PHP, HTML, CSS, TypeScript, GoLang, SQL, R

**Frameworks/Libraries:** React.js, Django, Next.js, Node/Express, Pandas, Numpy, Matplotlib, PyTorch,

**Tools/Methodologies:** Docker, Kubernetes, MongoDB, OracleDB, PostgreSQL, MariaDB, SQL\*Plus, Railway, Anaconda