Arya Gowda

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EDUCATION

University of Michigan   Expected Graduation: May 2026
College of Engineering - B.S.E in Computer Science   Ann Arbor, MI
Ross School of Business - Bachelor of Business Administration

- **Cumulative GPA**: GPA: 3.5 | Dean's Honors List
- **Relevant Courses**: Database Management Systems*, Computer Security*, Data Structures and Algorithms, Web Systems, Machine Learning, Computer Architecture, Foundations of Computer Science, Honors Linear Algebra, Corporate Strategy
- **Extracurriculars:** Michigan Student Artificial Intelligence Laboratory, University of Michigan Solar Car Team, Sigma Eta Pi (Entrepreneurship Co-Ed Fraternity), Michigan Hackers

EXPERIENCE

Full Stack Developer   June. 2025 – Aug. 2025
SABANA   Remote

- Built a **secure** project-sharing system using **hashed codes** enabling external collaborators to access individual projects without compromising firm-wide data privacy.
- Designed and developed application using **TypeScript** for frontend and **Python** for backend APIs by utilizing **FastAPI** and **Postgres** database to ensure efficient data storage and retrieval.
- Integrated **AWS S3** using **AWS SDK** to enable secure PDF storage and retrieval, with seamless upload and view functionality directly from the user interface.
- Optimized end-to-end workflows to improve application **performance**, **scalability**, and **reliability**.

Software Engineering Intern   May. 2024 - Aug. 2024
ALLY FINANCIAL   Detroit, MI

- Designed Ally Reliability Engineering (ARE) Intake Portal using **Figma** leveraging executive feedback to enhance usability and alignment.
- Developed ARE Portal using **ReactJS** and Ally **Metronome**, integrating **Amazon Kendra Confluence** search and Jira **REST API** to reduce ticket **turnover time by over 50%** and increase client **self-service rates by 80%.**
- Coordinated **cross-functional sessions** applying **design thinking methodologies** to enhance user and developer experiences.

Software Engineering Intern   May. 2023 - Aug. 2023
DANLAW INC.   Novi, MI

- Designed **IoT platform** to streamline lot management for dealerships; led UX design efforts using **Figma**.
- Developed scalable IoT platform with **B2B interface** using **AngularJS** for the frontend, **Java** for backend and **Oracle** database.
- Collaborated within a fast-paced **Agile** environment, utilizing **Jira** and **Confluence** for sprint planning, task tracking and project documentation.

PROJECTS

FLAPPY BIRD AI | *Python, Pytorch, Pygame,*

- Recreated and Flappy Bird game using **Pygame** and integrated the **NEAT** algorithm to evolve agent neural networks capable of learning and autonomously playing the simulated game with visualization options.

RACE TIME SYNTHETIC OPTIMIZER | *Python, C++, CMake*

- Developed a cross-seeding synthetic optimizer using **C++ and Python** to enhance race time efficiency for World Solar Challenge simulations, analyzing existing optimization algorithms to identify performance gaps and integration opportunities.

MOVIE RECOMMENDATION SYSTEM | *Python, Scikit-learn, Numpy*

- **Sentiment classification** pipeline using **SVMs** on Amazon Prime Video reviews, involving custom feature extraction, hyperparameter tuning with cross-validation, and engineering a high-performing multiclass classifier.

PROGRAMMING SKILLS

LANGUAGES: Python, C/C++, Java, TypeScript, HTML/CSS, JavaScript, PostgreSQL, Markdown

LIBRARIES / FRAMEWORKS: React, Pytorch, Scikit-learn, Flask, Angular, TensorFlow

TOOLS / PLATFORMS: Git/GitHub, AWS, Figma, Jira, Confluence, VSCode, Android Studio, Tableau