

ARADHIA BHAGAT

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Education

University of Wisconsin-Madison

June 2026

Bachelor of Science in Computer Science - Data Science

Academic Honors: Dean's List

Relevant Coursework: OOP and Data Structures using Java, Machine Organisation Using C, Data Modeling with R, Introduction to Computer Engineering, and Linear Algebra

Experience

Academic Technology Department, UW-Madison

May 2024 - Present

Software Developer

Madison, WI

- Collaborated with 15+ cross-industry clients to plan and estimate web development projects, used Figma to propose designs.
- Developed multiple online learning tools for UW Health via the Cornerstone API, leveraging Vue.js, slimPHP, and MAAMP for a dynamic and responsive user interface.
- Contributed to the UW Madison GPA Calculator by redesigning the design interface and working on the 'Raise GPA' function.

Informatics Skunkworks

August 2023 - Present

Undergraduate Researcher

Madison, WI

- Implementing NLP algorithms to create projects such as creating Automated Essay Feedback and Extracting Scientific data from Large Language Models.
- Led efforts to optimize project workflows and enhance overall efficiency, resulting in a notable 10.5% improvement in model efficiency.
- Created a neural network visualiser using Tensorflow and HuggingFace to display how activation functions work.

Siemens Energy

June 2023 – August 2023

Back-End Development Intern

Gurgaon, India

- Developed a Neural Network to forecast efficiency of sensors in a power plant using Python Libraries (Keras, Pandas, TensorFlow, NumPy, and Scikit-learn).
- Improved ANN's validation accuracy by 21% by bringing it to 99.55% by using L1 and L2 regularizers and dropout layers.

Projects

StockSimplified | Python, Flask, TensorFlow

June 2024

- Developed a chatbot for students to track expenses, set budgets, and receive financial advice using Python, Flask, and Dialogflow.
- Implemented a ML model with scikit-learn to analyze spending patterns, achieving an 85% accuracy in predicting expense categories and budget adherence.

KnowYourMajor | ReactJs, JavaScript, HTML, CSS, MaterialUI, SQLite, NodeJs, Flask API

July 2023

- Developed a web application that informs students about potential major choices based on their high-school classes.
- Used NodeJs and ReactJs to graph statistics about various majors.
- Collaborated to develop a major recommendation ML algorithm using the ReLU activation function with optimizers like Adam to improve efficiency. Used Flask to establish the application server.

Pure Hearts Website | ReactJs, JavaScript, HTML, CSS, SEO, BootStrap, Responsive Dynamic Design

May 2023

- Led the development of a local NGO website using ReactJs and BootStrap to implement features like dynamic content rendering, a search bar, and a donate page.
- Conducted the Search Engine Optimization for the site by hosting it on Nestify and using Google Analytics to improve site traffic by 70%.

Technical Skills

Languages: Java, Python, R, C, SQL, HTML, CSS, MATLAB, LaTeX

Developer Tools: Git, VS Code, Visual Studio, PyCharm, Gerrit, Bazel

Libraries/ Frameworks: ReactJs, Vue, Wordpress, slimPHP, Flask, NodeJs, Angular, Jest, Pandas, NumPy, Matplotlib, Keras, Tensorflow