

Risha Patel

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EDUCATION

University of South Carolina

Columbia, SC

- Bachelor of Science in Computer Science *Expected Graduation, May 2026*
- Major GPA: 4.0/4.0 | GPA: 3.85
- Relevant Coursework: Software Engineering, Algorithm Design I/II, Linux/Unix Fundamentals, Advanced Programming techniques, Discrete Math, Applied Linear Algebra, Operating System, Mobile application development

EXPERIENCE

Artificial Intelligence of South Carolina

Columbia, SC

Undergraduate Research Assistant

October 2024 – Present

- Integrated machine learning models into ROS2 for real-time object detection, image recognition, and obstacle avoidance, significantly enhancing TurtleBot4's autonomous capabilities.
- Optimized path planning and decision-making using reinforcement learning, improving navigation efficiency by 20%.
- Implemented AI-driven algorithms for real-time mapping and autonomous navigation, contributing to precision and performance improvements in robotics.

University of South Carolina

Columbia, SC

Undergraduate Teaching Assistant

August 2024 – Present

- Guided students in mastering Java programming, with a focus on algorithms and data structures, improving comprehension and coding efficiency through hands-on instruction.
- Led lab sessions, offering one-on-one support in debugging, testing, and optimizing code to ensure students met course objectives and improved their programming skills.

PROJECTS

Language Learning App

Columbia, SC

Software Engineer

August 2024 – Present

- Led full-stack development of an interactive language learning platform using JavaScript, Java, CSS, HTML.
- Applied software design patterns and used Scrum for agile project management.
- Created UML diagrams and implemented backend and frontend integration for system scalability.

Spam Email Classifier

Columbia, SC

Software Engineer

October 2024 – Present

- Developed a machine learning-based spam classifier using Python and Scikit-learn with Naive Bayes and Logistic Regression algorithms.
- Collected and processed datasets to train and test the model, achieving 95% accuracy in email classification.

Taskmate App

Columbia, SC

Software Engineer

August 2023–November 2023

- Developed and implemented a responsive user interface using JavaScript, HTML, and CSS, improving task management and user engagement.
- Linked with GitHub Pages for easy deployment and continuous updates, utilizing version control (Git) to track changes and collaborate effectively.

ACTIVITIES AND LEADERSHIP

Womens in Computing

Columbia, SC

Team Member

August 2024 – Present

- Organized workshops and coding sessions focused on empowering women in tech, promoting diversity and inclusion in STEM and led networking events with industry professionals and facilitated mentorship programs.

SKILLS

Programming Languages: Java, Python, JavaScript, HTML, CSS, SQL, C++, C

Frameworks/Applications: MATLAB, IntelliJ, PyCharm, Eclipse, AWS, Jupyter Notebooks, Git, ROS2