Rishika Baichwal

rishbaichwal@gmail.com
(919) 579-9753
https://www.linkedin.com/in/rishikabaichwal/

EDUCATION

North Carolina State University – Raleigh, NC May 2025
B.S. in Computer Science, Economics Minor

- **Relevant coursework**: Data Structures and Algorithms, Operating Systems, Machine Learning & Data Analysis, Economics, Software Testing, Project Management, Database Systems.

TECHNICAL SKILLS

- **Programming Languages**: Java, JavaScript, Python, HTML/CSS, C, Robot Operating System, C#, MySQL
- **Frameworks**: React, AngularJS, NodeJS, Flask, REST APIs, Docker, Kubernetes, Terraform, Jenkins, VMware Tanzu
- **Cloud/DevOps**: AWS, Azure, Google Cloud, Broadcom VMware vSphere, Vault, Git, Linux, Jupyter, Jira, Agile/Scrum

EXPERIENCE

Bank of America – New York City, NY July 2025 – Present
Software Engineer

- Provision and manage virtualized infrastructure using Broadcom VMware vSphere Foundation, supporting internal cloud platforms on the Core Technology Infrastructure team.
- Work with Kubernetes (VMware Tanzu) and Terraform to automate infrastructure provisioning and support scalable, containerized workloads

Bank of America – New York City, NY June 2024 – August 2024
Software Engineering Intern

- Built and scaled a backend entitlement system using Python, Azure SDK, and REST APIs to support enterprise access control.
- Extended and maintained existing Terraform configurations to support scalable development environments.
- Strengthened data security through Vault integration, supporting secure secrets management within existing access control workflows.

SAS – Cary, NC May 2023 – May 2024
Software Engineer Intern

- Developed full-stack features for an NLP-powered chatbot, designing backend services in Flask and integrating them with a responsive frontend.
- Deployed service on Google Cloud and implemented CI/CD pipelines to support reliable production releases.
- Wrote unit tests using Pytest and participated in peer code reviews to maintain code quality and system reliability.

NCSU f1thenth Lab – Raleigh, NC August 2023 – February 2024
Undergraduate Research Assistant

- Developed autonomous driving algorithms using ROS on Linux, improving vehicle control and responsiveness in high-speed navigation.
- Automated test environments using containerization to improve experiment reproducibility and streamline research workflows.

PROJECTS

LAS (Laboratory of Analytic Sciences) AI Benchmarking Leaderboard January 2025 – May 2025

- Engineered automated benchmarking pipelines for 100+ AI models using Python, Docker, and cloud compute (AWS/Azure), enabling reproducible large-scale evaluations for the Laboratory of Analytic Sciences.
- Implemented result storage and retrieval with PostgreSQL and REST APIs, streamlining comparison workflows and supporting transparent model evaluation.

NBA Performance Prediction System February 2024 – May 2024

- Built predictive models using Python, Pandas, and Scikit-learn to analyze player statistics, achieving 85% accuracy.
- Integrated automated data pipelines with cloud databases for real-time data processing and updates.

AI-Powered Chatbot *SAS* May 2023 – May 2024

- Architected a text retrieval and summarization system using NLP models to streamline customer support interactions.
- Developed a custom knowledge base and implemented indexing for rapid text searches, improving response efficiency.

2D Intelligent Searching Agent September 2023

- Designed an intelligent agent using A* search and advanced data structures to optimize performance in complex environments. Automated deployments with containerization tools, enhancing system efficiency.

ACTIVITIES & INVOLVEMENT

- **Clubs**: Pack Bionics (Software Engineer), Women in Computer Science (Member), Society of Women Engineers (Member), App Development Club (Developer), Artificial Intelligence Club (Researcher), Society of Sales Engineers (Member).
- Competed in DiamondHacks with Women in Computer Science, collaborating with a cross-functional team of developers.