Anshit Singh Rajput

New York | (607) 313-8907 | arajput@binghamton.edu | <u>LinkedIn</u> | <u>GitHub</u>

EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science
Master of Science in Computer Science   *Expected May 2026*
Cumulative GPA: 3.82/4.00
Relevant Coursework: Distributed Systems, Design and Analysis of Algorithms, Programming Languages, Computer Security, Systems Programming, Multi-Model ML in Biomedicine

MIT-Art, Design and Technology University, Pune, India
Bachelor of Technology in Information Technology   *May 2021*
Relevant Coursework: Database Management Systems, Advance Data Structures, Operating System, Distributed Systems, Computer Networks, Computer Vision, Artificial Intelligence, Computer Organization and Architecture

TECHNICAL SKILLS

Languages: Python, Java, C#, C, C++, JavaScript, Rust
Developer Tools: AWS(DynamoDB, Kendra), Android Studio, Firebase, IntelliJ, VS Code, Eclipse, Google Cloud Platform
Technologies and Framework: Linux, TensorFlow, PyTorch, Git, GitHub, React.js, Node.js, SQL, MongoDB, JUnit, Spring
Certifications: RedHat Certified System Administrator (RHCSA)

PROFESSIONAL EXPERIENCE

Persistent Systems, *Senior Software Engineer* | Pune, India   *September 2021 – December 2023*
Technologies: Java, AWS, Spring-boot, Maven, Postman
- Designed, developed and maintained 20+ crawlers for diverse data sources on AWS Kendra using SDK/APIs.
- Executed comprehensive requirement gathering and discovery investigations for over 10 connector development projects, including BRD and SOW documentation, met with clients to ensure alignment with specifications.
- Collaborated in an agile environment with cross-functional teams, participating in sprint planning and daily standups, while acting as an extended team member for on-site support team to enhance project outcomes across 15 major connectors.
- Ensured adherence to development, testing, and quality standards, implementing threading for each entity, achieved over 90% code coverage through unit testing using JUnit, resulting in reduction of bugs by 72%.
- Awarded the Top Talent Award for being in the top 5% of employees out of 25,000, recognized for exceptional performance.

Mentogram Inc, *Software Developer Intern* | Singapore   *December 2020 – September 2021*
Technologies: Java, Android Studio, Firebase
- Developed an e-learning mobile application for Android using Java and Firebase to manage the data of 300 users.
- Integrated Google Firebase to manage user data across web and mobile platforms, improving data synchronization by 25%.
- Collaborated with a team eight members using Git, organizing modifications and task assignments.

RESEARCH AND PROJECT EXPERIENCE

Programming Language for Uncertainty, *Graduate Research Assistant* | Binghamton, NY   *October 2024 – Present*
- Conduct research on optimization algorithms and distributed systems for programming languages, developing methods using linear programming and mathematical optimization to address partial observability in large-scale systems.
- Collaborate with Professor Eric Atkinson to analyze 10+ papers on belief programming and Epistemic Hoare Logic, identifying gaps in observability modeling and proposing novel probabilistic verification methods.

Paraphrase Identification, *Back-End ML Developer* | Pune, India   *August 2020 – May 2021*
- Built a deep learning system using TensorFlow to detect sentence similarity, trained on a dataset of 400,000+ sentences pair, enabling users to select the most suitable model (CNN, RNN, MAN) based on semantic complexity and accuracy.
- Attained accuracy rates of up to 81% across CNN, RNN, and MAN models, providing effectiveness across diverse sentence semantics and enhancing user decision-making through comparative model performance.
- Integrated and evaluated advanced neural network architectures, contributing to improved performance in NLP tasks.

SAHAYAK - AI based Grievance Management System | Pune, India   *September 2019 – October 2019*
- Created an AI-powered mobile application for efficient city maintenance, reducing manual reporting efforts by 50%.
- Streamlined the reporting process by automating the classification of grievance types using a machine learning model and routing grievance report to the nearest location, resulting in a 60% reduction in processing time.
- Implemented a tracking feature for users to monitor the progress of reported grievances, enhancing transparency for 500+ users.
- Achieved third place in a state-level Hackathon, competing against 20 teams.

PUBLICATIONS

Published a <u>Research Paper</u> in IRJET (Vol. 8, Issue 5) on Paraphrase Identification, showcasing innovative methods to predict sentence similarity using CNN, RNN, and MAN models.