Shouvik Seth

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OBJECTIVE

AI engineer pursuing an M.S. in Computer Science (Artificial Intelligence) at Rutgers University, leveraging 3 years of experience in automation, AI, and full-stack engineering to build scalable, secure, and ethical intelligent systems.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, R, Visual Basic
AI/ML: TensorFlow, PyTorch, scikit-learn, OpenCV, DeepEval, Botpress
Frameworks: Django, Flask, Spring Boot, Angular, Node.js, React
Cloud/DevOps: Docker, Kubernetes, Azure Cloud, Jenkins, GitHub Actions, REST APIs, CI/CD
Databases: PostgreSQL, MySQL, MSSQL, SQLite
Tools: Git, Selenium, Postman, Jupyter, VS Code, Eclipse, Maven
Simulation/Design: ROS, MATLAB, Gazebo, Photoshop

WORK EXPERIENCE

Software Test Analyst, Infosys India Pvt. Ltd. *Sep 2021 – Dec 2024, India*

Applied AI Platform for QE

- Led a 6-member team to design and deploy an AI-powered QA automation suite adopted across enterprise projects, cutting release cycles by 50%.
- Built asynchronous API pipelines for high-throughput automation, improving test execution speed by 50%.
- Enhanced DOM extraction for LLM-based data parsing, improving model accuracy by 35%.
- Designed modular multi-agent architecture enabling scalable, market-ready QA workflows across clients.
- Collaborated with product managers and QA leads to deliver production-grade tools aligned with enterprise standards.

AI Assurance Platform

- Developed an LLM evaluation framework using DeepEval and Botpress APIs to assess Relevancy, Completeness, and Retention.
- Built a Django + Angular dashboard for visualizing chatbot analytics and evaluation metrics.
- Reduced chatbot validation time by 50% through automated pipelines and explainability modules.
- Worked with AI research teams to integrate responsible and interpretable AI components into client chatbots.

ERP and QA Automation Tools

- Re-engineered backend systems to handle high concurrency, increasing performance by 40%.
- Deployed microservices via Docker and Kubernetes, enabling continuous delivery with 0-downtime deployments.
- Created a Chrome extension to auto-generate Selenium scripts, improving QA productivity by 60%.
- Mentored new hires, coordinated sprints, and led cross-team collaboration for market-ready feature releases.
- Promoted twice within 3 years for leadership, technical innovation, and product impact.

INTERNSHIPS

Hitachi (Johnson Controls) *May 2019 – Jul 2019, Ahmedabad, India*
Improved production efficiency by 45% via Time & Motion study optimization and process redesign.

Ice Make Refrigeration Ltd. *Aug 2020 – Sep 2020, Ahmedabad, India*
Enhanced assembly workflows and throughput through bottleneck analysis and layout optimization.

EDUCATION

Rutgers University – New Brunswick *Jan 2025 – Present*
M.S. in Computer Science — Concentration: Artificial Intelligence (Expected Dec 2026)

Manipal University Jaipur *Aug 2021*
B.E. in Mechatronics Engineering

PROJECTS

Room Mapping Robot (ROS, LiDAR) — Developed autonomous mapping system with ROS Noetic, Arduino, and LiDAR; simulated in RViz and MATLAB for environment perception.

AI Navigation Project ("This Bot is on Fire") — Designed intelligent agent using A* and Bayesian modeling to navigate stochastic fire spread under uncertainty.

Cloud-Based LLM Evaluation System — Created Kubernetes-based microservice for scalable LLM benchmarking and explainable AI evaluation using DeepEval metrics.

LEADERSHIP & SERVICE

Led 15+ college festivals including a university TEDx event; supervised technical teams in automation and event logistics. Volunteered in clean-tech and eye-donation initiatives promoting responsible AI for social good.