Laxmi Poudel

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EDUCATION

Rochester Institute Of Technology   Rochester, NY
Bachelor of Science, Software Engineering   *Aug 2021 – May 2025*

PROFESSIONAL EXPERIENCE

Test Engineering Intern   June 2024 – Aug 2024
SRC Tech   *North Syracuse, NY*

- Automated radar testing delay line and RF switch settings using Python and HTTPS, reducing manual effort by 40% and increasing efficiency.
- Resolved 15 technical issues across multiple libraries, upgrading Python 2.7 code to 3.10, which cleared backlog and improved testing speed by 25%.
- Migrated radar calibration software from Linux to Windows Server, enhancing system performance and compatibility, and boosting testing speed by 25%.

Software Engineering Co-op   Jan 2023 – Aug 2023
Saab Inc.   *East Syracuse, NY*

- Launched a feature for the Air Situation Display (ASD) that enables users to view all aircraft within a radius when clicking on a point, replacing the previous system that only showed that top aircraft.
- Collaborated with the FAA to track objects using an Angular web app with a Java back-end, integrating the SysMon module to enhance operational capabilities in the Cooperative Surveillance System (CSS).
- Developed a feature to filter low-quality data from ADS-B and MLAT systems, increasing data accuracy by 20% for safer air traffic operations.
- Optimized PostgreSQL queries, achieving a 2x improvement in data retrieval speeds and enhancing the user experience for air traffic controllers.

PROJECTS

Trivial Trivia | *Java, Maven, Spring, Azure, JavaScript, JSP, HTML, CSS*   Dec 2022 – Present

- Led the development of a web-based trivia game, resulting in enhanced user accounts, score tracking, and game functionality.
- Designed and implemented key components like User Authentication and Command Subsystem, utilizing industry-standard design patterns.
- Utilized the Scrum framework to organize sprints, delivering Minimum Viable Products (MVPs) effectively.
- Deployed the site using Azure, demonstrating cloud deployment capabilities.

E-Store: FootWare | *Java, Maven, Angular, Spring Boot, JS, HTML, CSS*   Feb 2022 – Apr 2022

- Utilized Agile practices, including daily stand-up meetings and storyboarding, to ensure efficient project progression.
- Verified unit tests to achieve 90%+ code coverage and comprehensive documentation to validate functionality and support design choices.
- Primarily worked on the shopping cart feature and provided support to other team members on the wish list, inventory, and coupon features.

LEADERSHIP / VOLUNTEERING

Leading High Performance Teams (RIT)   September 2023

- Built leadership and teamwork skills through interactive challenges focused on creating inclusive, high-performing teams and empowering members.

Tools for Innovators Certificate Program   September 2023

- Earned the Tools for Innovators Certificate, showcasing proficiency in design thinking, creative problem-solving, and strategic innovation methodologies to deliver impactful solutions.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS
Frameworks: Spring, Maven, JSP, React, Angular, Flask, JUnit
Developer Tools: Docker, Kubernetes, Azure, Jira, Wildfly, Git, Jenkins, Postgres, VS Code, IntelliJ, Eclipse
Libraries: Spring Boot, NumPy, SciPy, Log4j