

Shubham Jain

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EDUCATION

University of Saskatchewan

Bachelor of Science in Computer Science

Confederation College

Diploma in Aerospace Manuf. Eng.

Saskatoon, SK

Expected Graduation Date: Apr 2025

Thunder Bay, ON

Jan 2016 – Apr 2017

CERTIFICATION

AWS Certified Cloud Architecture Associate (SAA-C03)

May 2023

[Amazon Web Services](#)

AWS Certified Cloud Practitioner (CLF-C01)

Nov 2022

[Amazon Web Services](#)

EXPERIENCE

Software Engineer Intern, Nutrien Ltd. (16 months)

QA Team

Sept 2023 – Apr 2024 (Expected)

- Conducted comprehensive performance testing on Nutrien's client-side platform, utilizing load testing tools and AWS services to validate the system's ability to handle 10,000 concurrent users without performance degradation, resulting in a 20% improvement in response time.
- Identified and resolved 30+ software bugs through meticulous testing and debugging processes, collaborating with developers and QA teams to ensure the delivery of high-quality software that met user expectations.
- Contributed to the development of test automation frameworks using Selenium WebDriver, reducing manual testing effort by 30% and improving test coverage by executing over 500 automated test cases.

Release Team

Jan 2023 – Aug 2023

- Coordinated the successful deployment of four different software platforms, ensuring seamless user experiences and comprehensive documentation for internal and external stakeholders.
- Implemented efficient release strategies for software issues in C# and TypeScript, collaborating with cross-functional teams to minimize disruptions and maintain version control systems, resulting in smooth deployments.
- Managed the planning and execution of releases, maintaining version control systems for efficient deployments, resulting in a 25% reduction in disruptions during software updates.

PROJECTS

Gym Management System | Python, HTML, CSS, JavaScript, SQLite

- Developed a python-based management system with user login functionality, allowing customers to easily access their subscription and payment details.
- Implemented a reservation feature within the management system, enabling users to reserve equipment and facilities at local gyms.
- Linked the management system to an SQLite database for efficient storage and retrieval of information.

Text Detection | Python

- Utilized Python, OpenCV, and tesseract packages to implement image processing techniques for text extraction, resulting in improved accuracy and efficiency in scanning and searching texts within digitized documents and images.
- Implemented a color space conversion to grayscale and applied dilation to enhance the clarity of text groups in an image, leading to a 20% increase in OCR accuracy.
- Developed a contour-based looping algorithm to extract text from images, resulting in a 30% reduction in processing time compared to traditional OCR methods.

TECHNICAL SKILLS

Programming Languages : Java, Python, C/C++, C#, TypeScript, JavaScript, HTML5/CSS
Frameworks, Tools, and Databases : Node.js, React.js, .NET, Express, Git, SQL, Web Services