

# Sai Nath Chary Shivakoti

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## PROFESSIONAL SUMMARY

Software Engineer with over 3 years of experience in software development, quality assurance, and data analysis. Proficient in Java and Python development, with a focus on delivering high-quality solutions and improving system efficiency. Experienced in agile environments, automation testing, and collaborating with cross-functional teams. Seeking to leverage skills in software development at leading organisations to build innovative solutions.

## EDUCATION

### MSc Advanced Computer Science

January 2022 - January 2024

*University of Hertfordshire; Hatfield, Hertfordshire, UK*

- CGPA: 3.7/4.0
- Relevant Coursework: Software Engineering, Computational Algorithms, Foundations of Data Science

### Bachelor of Technology in Computer Science and Engineering

August 2016 - September 2020

*Malla Reddy Engineering College; Hyderabad, Telangana, India*

- CGPA: 4.0/4.0
- Relevant Coursework: Object-Oriented Programming, Database Management Systems, Computer Programming

## PROFESSIONAL WORK EXPERIENCE

### Software Developer Intern

September 2022 – May 2023

*Tech Grids Limited, Altrincham, England, UK*

- Developed backend features using Java and Spring, contributing to new functionalities and enhancements across multiple projects
- Designed and executed unit tests with JUnit to ensure code quality, identifying bugs and issues early in the development process
- Validated 25+ automated tests with Selenium, ensuring that software releases maintained a high standard of quality
- Assisted in integrating automation testing within the CI/CD pipeline, facilitating a 30% reduction in the time required for software release cycles
- Engaged actively in Agile sprint planning and daily stand-ups, contributing to continuous improvement discussions and collaborative problem-solving

### Data Science Intern

September 2023 – May 2024

*Wood Group Limited, Aberdeen, Scotland, UK*

- Collected and cleaned datasets from various data sources, streamlining the data preparation process for analysis
- Analysed data and identified trends using Python and libraries such as Pandas and NumPy, resulting in actionable insights that improved decision-making
- Communicated findings through reports and dashboards created in Power BI, enabling data-driven strategies across teams
- Collaborated closely with cross-functional teams using JIRA for project tracking and provided regular updates to ensure alignment with business objectives

### Associate Quality Assurance Engineer

July 2020 – December 2021

*Open Text Technologies India Pvt Ltd, Hyderabad, Telangana, India*

- Developed and maintained over 100 automated test cases using Java and Selenium, improving test coverage and efficiency
- Optimized test execution by implementing an automation framework, reducing manual testing efforts by 40%
- Conducted root cause analysis on defects and issues reported, ensuring timely resolution and enhancing product stability
- Enhanced CI/CD pipeline by reducing runtime from 16 hours to 9 hours through workflow and script optimizations.
- Planned and executed unit, integration, and regression testing, coordinating with a team of 6 developers to deliver quality releases

## Engineering Intern

December 2019 – May 2020

*Open Text Technologies India Pvt Ltd, Hyderabad, Telangana, India*

- Assisted in testing activities using Cucumber, writing scenarios and step definitions to support automation testing
- Verified product features and functionalities by executing manual test cases, ensuring compliance with business requirements

## Cyber Security Intern

May 2019 – August 2019

*Deloitte Touché Tohmatsu Limited, Hyderabad, Telangana, India*

- Monitored security events using SIEM tools like IBM QRadar and ArcSight, generating reports for analysis
- Investigated 250+ security incidents, identifying patterns and proposing solutions to enhance security measures

## PROJECT EXPERIENCE

### Investigation of Predictive Modeling for Customer Churn

May 2023 – September 2023

- Conducted data cleansing, modeling, and analysis on a telecom dataset with 7,043 users using Python
- Achieved 99% prediction accuracy for customer churn using deep learning techniques, including CNN and XGBoost
- Identified user behaviour patterns through data analysis, leading to strategies that improved customer retention

### Chatbot That Can Engage in Natural Conversations Using LangChain

June 2023 – July 2023

- Developed a chatbot leveraging LangChain and OpenAI to engage users in natural language conversations
- Designed a custom data pipeline for training, improving chatbot accuracy and response relevance
- Deployed the chatbot in a real-world setting, collecting feedback to refine its performance

### Files Encryption and Decryption using a GUI

March 2020 – April 2020

- Created a Python-based tool using AES encryption for secure file handling, supporting various file formats
- Designed a user-friendly GUI, facilitating easy encryption and decryption of files
- Added functionality to send encrypted files via email, ensuring secure communication

### Morse Code Translator using a GUI

November 2019 – December 2019

- Developed a Python application interface to translate Morse Code to plain text and vice versa, enhancing usability
- Implemented an intuitive GUI for seamless translation, catering to both beginners and experienced users
- Conducted user testing to validate accuracy and optimize the application's performance

## SKILLS

- **Programming Languages:** Java, Python, C++, JavaScript, TypeScript
- **Frameworks and Tools:** Spring, JUnit, Selenium, Cucumber, Git, Jenkins, Appium, Postman
- **Database Management Tools:** MySQL, SQL Server Management Studio (SSMS)
- **Operating Systems:** Windows, UNIX/Linux
- **Testing & Automation:** Test-Driven Development, Behaviour-Driven Development, CI/CD, Testing Methodologies (Manual, Automation, User Acceptance Testing (UAT), Unit Testing, Regression Testing)
- **Cloud Technologies:** Basic knowledge of AWS, Docker, Azure DevOps, Azure Databricks, Google Cloud
- **Tools and Platforms:** Jira, Confluence, Power BI, IBM QRadar, ArcSight
- **Agile Methodologies:** Scrum, Sprint planning
- **Microsoft Office:** Word, Excel, PowerPoint
- **Machine Learning:** Pandas, Scikit-learn, Numpy, TensorFlow