

Srinag Marni

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PROFILE

Dynamic software developer with a Master's in Data Science and 2+ years at Tata Consultancy Services, leading the full lifecycle development of 45+ .NET-based enterprise software projects.

EDUCATION

UNIVERSITY AT BUFFALO

Buffalo, NY

Master of Science, Majors: Data Science; Cumulative GPA: 3.67/4.0

Expected December 2024

Relevant Coursework: Statistical Learning and Data Mining; Data Intensive Computing; Python for Data Scientists; Machine Learning.

PRESIDENCY UNIVERSITY

Bangalore, India

Bachelor of Technology, Majors: Computer Science and Engineering; Cumulative GPA: 9.23/10.0

August 2017 - May 2021

Relevant Coursework: Cryptography and Network Security; Compiler Design; Big Data Analytics; Digital Entrepreneurship; Analysis of Algorithms; Artificial Intelligence; Software Development Life Cycle.

PROFESSIONAL EXPERIENCE

TATA CONSULTANCY SERVICES

Bangalore, India

Systems Engineer | On-site

June 2021 – August 2023

Executed full lifecycle software development specializing in scalable solutions for the automotive industry.

- Developed a report automation tool that reduced man-hours by 10,000 each cycle for automotive clients.
- Led the development of a V2X system with MQTT protocol, enabling ECU connectivity for real-time monitoring, remote control, and diagnostics via Android app generating \$10M+ in revenue.
- Created algorithms for pattern recognition and OCR, enhancing data processing efficiency by 25%.
- Designed an autonomous testing tool to automate 25,000 test scripts, cutting a 1-1.5-year project down to just 20 days.

TATA CONSULTANCY SERVICES

Bangalore, India

Data Enrichment Engineer Intern | Remote

March 2021 – April 2021

Generated training data and maintained hyperparameters for image processing classifications.

- Generated and optimized a dataset of over 5,000 images, boosting ADAS module backup system accuracy by 35% for weather condition detection.
- Conducted image processing classifications using advanced techniques, resulting in a 20% reduction in processing time.

NOWAPPS TECHNOLOGIES PVT. LTD

Bangalore, India

Junior Developer Intern | On-site

June 2019 – August 2019

Contributed to app development and manual testing, enhancing collaboration solutions.

- Built a cross-platform application using Flutter, improving user experience across devices and reducing development by 50%.
- Implemented k-means clustering with scikit-learn to compress images, optimizing storage by 30%.

PROJECTS

- **CipherStockX | Published Website (~120 hrs)** – [Site](#) / [GitHub](#) *GenAI, NLP, RAG, Yahoo Finance, SEC CIK Mapper*
Designed a comprehensive automated stock analysis dashboard that enhances real-time data exploration and improving stock discoverability by 70%, enabling rapid sentiment analysis and SEC insights to streamline investment decisions.
- **AutoPitch | Published Website (~70 hrs)** – [Site](#) / [GitHub](#) *Langchain, Vector Database, Gemini Pro 1.5*
Engineered an AI-powered cold email generator tailored for managers and executives from consultancy firms, to effectively connect portfolios with relevant job postings increasing outreach by up to 90%.
- **Gesture Based Mouse Control | Standalone Tool (~100 hrs)** - [GitHub](#) *OpenCV, Dlib, SpeechRecognition, PyAutoGUI*
Utilized mathematical equations to detect facial expressions, improving accessibility for users with disabilities by 50%.
- **ShockDart | Ongoing Development (~30+ hrs)** *Golang, SendGrid, Firebase, Twilio, Kafka*
A multichannel application that allows users to join channels and customize notification preferences across platforms. Utilizing Kafka for rate-limiting, error retrieval, and processing to ensure 100% reliable and timely notifications.

TECHNICAL SKILLS

- **Frameworks and Platforms:** .NET (ASP.NET, .NET Core, Entity Framework), Flutter, Hadoop.
- **Programming Languages:** Python, C#, R, Go, C++, Java, SQL, MATLAB, HTML/CSS, JavaScript.
- **Libraries:** NumPy, TensorFlow, Streamlit, OpenCV, Selenium, Scikit-learn, Pandas, Langchain, Plotly, Faiss, Scipy.
- **Certifications:** Architecting with Google Compute Engine, SAFe Agile Practitioner, Microsoft: Azure Fundamentals.
- **Others:** Jira, CI/CD pipelines (Azure, GitHub), Firebase, AI, ML, ETL Pipelines, Google AI Studio, Testing (Unit Testing, Black Box Testing, Smoke Testing, Automated Testing Scripts).