Arun Gaonkar

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PROFESSIONAL SUMMARY

Software Engineer with a strong background in data platforms, stream processing, and large-scale system design. Passionate about building scalable, reliable infrastructure and frameworks that drive impactful user experiences. Experienced in optimizing product performance and collaborating across teams to deliver data-driven solutions, with a focus on leveraging open-source technologies and cloud-based platforms.

EDUCATION

- Masters, North Carolina State University Aug 2021 - May 2023 Raleigh, NC Computer Science **Coursework:** Algorithms, Artificial Intelligence, Machine Learning, Natural Language Processing, Business Intelligence, Statistics, **Bachelors**, **PES** University Aug 2016 - Jun 2020
- Computer Engineering

SKILLS

- Languages: Python, ECL, C/C++, JavaScript, NodeJS
- Frameworks: HPCC Systems, HTML, CSS, REST, Jenkins, Apache
- Tools & Technologies: MySql, Azure, PowerBI, TensorFlow, PyTorch, Git
- Soft skills: Cross Collaboration, Communication, Problem-Solving, Learning, Creative

EXPERIENCE (1.5 YEARS)

LexisNexis Risk Solutions

- Software Engineer II
- Designed and maintained data infrastructure systems for critical cloud-based products, enhancing batch processing cycles to handle 10,000+ requests, contributing to reliability and performance improvements.
- Led the development of a Proof of Concept to optimize cloud storage, achieving 300% storage reduction, significantly improving resource management for Azure-based infrastructure.
- \circ Implemented automation scripts to simulate customer traffic across 30+ products, ensuring service uptime and reliability within a complex cloud environment
- Created LRE scripts to simulate production customer traffic for 30+ Insurance products and to ensure product and service uptime in Azure cloud.

North Carolina State University

- Research Assistant Social AI Lab
- Developed transformer-based NLP models (BERT, RoBERTa) for extracting insights from large datasets, enhancing classification accuracy and enabling efficient data processing.
- Curated and processed a novel dataset of 5,000+ social media posts, contributing to scalable data exploration and analysis, improving data pipeline efficiency for research purposes.

Alpharetta, GA Aug 2023 - Present

Raleigh, NC

Sep 2022 - May 2023

Bengaluru, India

Alpharetta, GA 919 349 6169

LexisNexis Risk Solutions

- Leveraged Python and HPCC Systems for causal analysis on large datasets, driving discovery of implicit causal relationships for various industries (healthcare, agriculture)
- $\circ\,$ Developed and deployed models with multiple variables using Bayesian networks, optimizing data processing workflows and scaling infrastructure.

Projects

- Relative Pose with Azure Functions (Cloud Integration): Developed an API to calculate camera motion and orientation through Azure Functions, improving cloud integration and scaling the service to handle real-time HTTP requests. Integrated with Blender to estimate the relative pose and track camera motion, and thereby enhancing camera calibration.
- Example-Bot: Personalized Code Assistant (ChatBot & DevOps): Built a server-based chatbot using Ansible and Git bash for CRUD operations on MongoDB, designed to help developers create, store, and retrieve customized code snippets and API examples while following Scrum and Agile methodologies. Achieved 96% test coverage by implementing unit testing with Chai and Mocha, and deployed a seamless CI/CD pipeline.
- GitHub Graphics Bot (Web Application): Built a web application to visualize GitHub data by integrating CI/CD pipelines, enabling teams to manage resources and monitor progress through automated data flows.
- Context Based Sarcasm Detection (Natural Language Processing): Built a robust NLP pipeline with RoBERTa and Bi-LSTM models, achieving 96% classification accuracy, resulting in improved understanding of sarcasm in language.
- Wildfire Data Analysis & Cause Prediction (Data Analysis & Visualization): Led a team to develop a data pipeline for analyzing 1.88M records, achieving 93% cause prediction accuracy, showcasing skills in building scalable data platforms, potentially enabling effective and efficient fire prevention & response measures.

CERTIFICATES AND ACHIEVEMENTS

- Active member of Employee Resource Groups (Generation, Ethnic), contributing to collaborative and inclusive work culture.
- Volunteer in various company-organized activities such as the Mayor's walk, Blood camp.
- Awarded the Prof. CNR Rao Award for consistent top 10% academic performance at PES University.