Narayana Manjunath Reddy

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SUMMARY

Senior developer with 9+ years in C++ and Python, 3+ years as a team lead with experience in ML. Proficient in design patterns, data structures, multithreading, and Agile development. Strong communicator, collaborative, and fast learner.

SKILLS

Languages: C++ (Fluent), Python (Fluent), R (Intermediate), Rust (Basic), SQL (Intermediate).

Libraries: Boost, Qt, PyTorch, Numpy, Pandas, Matplotlib, Plotly, XGBoost, Spacy, Tidyverse, Shiny.

Tools: Cmake, Git, JIRA.

EDUCATION

Technische Universität Kaiserslautern, Germany   Oct 2022
- **Masters** in Computer Science(Intelligent Systems).
- **Thesis:** A contrastive framework for text style embeddings.
- **Coursework:** Data Science, Deep Learning, Machine Learning, Regression & Time series.

EXPERIENCE

System Software Lead, Astrome – Bangalore, India   Jan 2025 - Present
- *Tech & Tools:* Windows & Linux, Bash, C++, Python, Numpy, Pandas, Matplotlib, Git, OpenProject.
- Led a team of five to develop system software for Multibeam E-band devices, delivering multiple features on time.

Software Engineer, Cerence – Aachen, Germany   Aug 2023 - Sep 2024
- *Tech & Tools:* Windows & Linux, Bash, C++, Python, SQL, PyTorch, Numpy, Pandas, Matplotlib, Git, JIRA.
- Enhanced audio recognition with dynamic audio recognition configuration, improving recognition accuracy by 15%.
- Simplified syncing of nested repositories with custom version control system, reducing effort spent on syncing by 80%.
- Integrated Generative NLP model into existing Audio Recognition System, enhancing system capabilities by 40%.

Senior Software Development Engineer, Amadeus – Aachen, Germany   Oct 2022 - Apr 2023
- *Tech & Tools:* Windows, C++, Python, Cython, Numpy, Git, JIRA.
- Created fail-safe using geocodes and REST calls, saving 30 minutes per faulty booking, enhancing system reliability.
- Scaled up data import, resulting in 60% faster completion of data production, improving operational efficiency.

Scientific Assistant, Fraunhofer ITWM – Kaiserslautern, Germany   Sep 2020 - Sep 2022
- *Tech & Tools:* Windows, R, Python, PyTorch, Plotly, XGBoost, Spacy, Tidyverse, Shiny, SQL, Pandas, Git, JIRA.
- Anonymized over 1500 e-mail transcripts of customer service issues with NLP, enhancing data privacy.
- Improved ML ensemble to detect fraud from 65% to 72%, increasing detection accuracy and reducing false positives.

Student Assistant, DFKI – Kaiserslautern, Germany   Feb 2020 - Feb 2021
- *Tech & Tools:* Windows, C++, Qt, OpenCV, Git, JIRA.
- Improved lookup algorithm from $\mathcal{O}(n)$ to $\mathcal{O}(\log n)$ in video synchronizer for eye contact visualization.

Senior Engineer, Bosch – Bangalore, India   Aug 2015 - Jul 2018
- *Tech & Tools:* Windows & Linux, Bash, C++, SQL, Qt, CMake, Boost, Python, OpenCV, Git, JIRA.
- Led a team of six to develop navigational software, reducing loading time by 80% and memory footprint by 10%.
- Created an automatic visual testing tool, saving 4 hours of manual testing per month.
- Implemented CI/CD pipelines and Agile methodology, improving development processes and team collaboration.

Application Developer, IBM – Kolkata, India   Sep 2012 - Aug 2015
- *Tech & Tools:* Windows & Linux, Bash, C++, SQL, Python, Rational ClearCase, Rational TeamConcert.
- Automated generation of project-specific boilerplate code, saving the team 1 hour per month and improving efficiency.
- Tracked and communicated development progress as Scrum Master, ensuring timely project completion.