

# 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 - May 2025

- **Tech & Tools:** Linux, Bash, C++, Python, Numpy, Pandas, Matplotlib, Git, OpenProject.
- Led a team of eight to develop system software for Multibeam E-band devices, delivering multiple features on time.
- Handled all code reviews of the team and engaged in pair programming sessions to ensure code quality.

**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 a custom version control system, reducing the effort spent on syncing by 80%.
- Integrated Generative NLP model into existing audio recognition system, improving 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 more than 1500 email 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  $O(n)$  to  $O(\log n)$  in video synchronizer for visualizing eye contact.

**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 navigation software, reducing the loading time by 80% and the 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.