# Narayana Manjunath Reddy

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## SUMMARY

Senior Developer with 8 years of experience in software engineering, design, and development. Proven track record of leading and delivering high-quality Agile projects while collaborating with cross-functional teams.

## SKILLS

**Programming: C++ (Fluent), Python (Fluent), R (Familiar)**

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

**Misc: CMake, Git, NSIS, SQL**

## EXPERIENCE

### Software Engineer

Cerence GmbH                                                         **August 2023 - Present,  Aachen, Germany**

- [C++] Enhanced audio recognition in ASR by extending support for dynamic audio recognition configuration.
- [Python] Simplified syncing of nested repositories and took ownership of custom version control system.

### Senior Software Development Engineer

Amadeus Leisure IT GmbH                                             **October 2022 - April 2023,  Aachen, Germany**

- [C++/Python] Created fail-safe using geocodes and REST calls, saving 30 minutes per faulty booking.
- [Python] Scaled up data import resulting in 60% faster completion of data production.
- [Docker] Optimized build pipeline images and updated them with latest GCC to reduce build time by 10%.

### Scientific Assistant (Part time)

Fraunhofer ITWM                                                     **September 2020 - September 2022,  Kaiserslautern, Germany**

- [Python] Anonymized over 1500 e-mail transcripts of the client's customer service issues with NLP.
- [R/Shiny] Improved accuracy of ML ensemble to detect fraud from 65% to 72% and created dashboard to visualise results.

### Student Assistant (Part time)

DFKI                                                                 **February 2020 - February 2021,  Kaiserslautern, Germany**

- [C++/Qt]  Improved lookup algorithm from $O(n)$ to $O(\log n)$ in synchronised video player for mutual eye contact visualization.

### Senior Engineer

Bosch                                                                **August 2015 - July 2018,  Bengaluru, India**

- [C++/Qt/Scrum] Led the development of a navigational application, as Scrum Master and Tech lead.
- [C++] Reduced loading time of the application by 80% and memory footprint by 10%.
- [Python/OpenCV] Created an automatic visual testing tool, saving 4 hours of manual testing per month.

### Application Developer

IBM                                                                  **September 2012 - August 2015,  Kolkata, India**

- [C++/MFC] Independently designed and developed new application features.
- [Python] Automated generation of C++ project-specific boilerplate code saving the team 1 hour per month.
- [Scrum] Tracked and communicated the development progress as Scrum Master of the team.

## EDUCATION

### Masters in Computer Science (Intelligent Systems)

Technische Universität Kaiserslautern • Germany • 2022

### Bachelor of Engineering (Computer Science & Engineering)

Visvesvaraya Technological University • India • 2012