Leela Kondamadugula

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Experience

Software Developer   Oct 2021 – Present
Agile Robots SE   *München, Germany*

- Designed and implemented software wrappers and APIs on top of hardware SDKs to enable internal tools and robotic applications.
- Developed modular C++ libraries for robot control, camera calibration, and perception integration in ROS2 environments.
- Streamlined software packaging and delivery using Docker, Conan, and CI/CD, improving internal deployment speed and stability.
- Collaborated with hardware teams to extend and debug SDK functionalities for new robotic components.
- Traveled to customer sites in China to implement, test and deliver on/site robotic solutions, ensuring smooth integration between software and hardware systems.
- Contributed to a Deep Learning object detection library and synthetic data generation pipeline.

Machine Learning Researcher   Aug 2020 – Jul 2021
Siemens   *München, Germany*

- Implemented Physics Informed Neural Networks for Digital Twin technology to improve simulation testing.
- Prototyped a data-driven software based on Probabilistic Programming to predict structural failures.
- Gained experience in Python programming and worked with Deep Learning libraries such as PyTorch and TensorFlow.

Software Tester   Jun 2019 – Apr 2020
TÜV SÜD   *München, Germany*

- Conducted software quality testing and documentation migration to Microsoft Azure DevOps, improving test traceability and coverage.

Education

Master of Science in Computational Science and Engineering   2018 - 2021
Technical University of Munich   *München, Germany*

Bachelor of Technology in Mechanical Engineering   2013 - 2017
Ramaiah Institute of Technology   *Bengaluru, India*

Technical Skills

Languages: C++, Python, Rust, Matlab, Bash, CMake

Technologies: ROS2, Parallel Programming, CUDA programming, Docker, Conan, vcpkg, git, LaTeX

Concepts: API Design, Event-Driven Architecture, SDK Development, CI/CD

Other: Agile Methodology, Jira, Confluence, HTML, CSS

Publications

- DG-GRU: Dynamic Graph based Gated Recurrent Unit for age and gender prediction using Brain Imaging (article)

- Generalized physics-informed machine learning for numerically solved transient physical systems (article)