Venkat Ramana Madhavan

Application Engineer

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📍 Munich, Germany

SUMMARY

With five+ years in application and product development, I specialize in creating reliable products that enhance business skills for end-users and vendors. Interested in product portfolio with aim to lead cross-functional teams.

EXPERIENCE

Application Engineer

Rohde & Schwarz

📅 09/2020 - Present   📍 Munich, Germany

- Develop robust back-end firmware in C++ for real-time radar measurements and implement a web interface platform using React, achieving 50% time savings through effective code and design reviews
- Led cross-platform application integration using Kubernetes and DevOps, contribute to successful migrations and enhancing efficiency by 60% for spectrum analyzers
- Delivered customer-driven features, supervised testing, and handled critical breaks to ensure high-quality releases and efficient test processes
- **Software Engineer** - Development of Mobile Radio Tester - 09/2020 - 06/2022
- Developed backend firmware for WLAN 11ax measurements and implemented the Web UI framework for CMX Mobile Radio Tester, collaborating with an 8-engineer Agile team to enhance measurement reliability
- DevOps integration and deployed software using C++, Python, Angular, Docker, and SCPI across Windows and Linux platforms, improving cross-platform efficiency by 25%
- *Tech Stack*: C++, Python, React, Kubernetes, SCPI, VISA

Intern

e.solutions GmbH | Siemens AG

📅 01/2019 - 08/2020   📍 Nuremberg, Germany

- Developed video stream analysis tools using C++11 and CMake, contributing 50% to an automotive infotainment project. Led GUI development with Qt and ensured cross-platform integration. Conducted unit testing to improve tool reliability and performance with Audi Partner e.solutions
- Developed and deployed augmented reality cloud applications on AWS, optimizing 3D models and reducing errors by 20%. Realized web-based applications using Angular with cross-platform support, improving scalability by 25%. Conducted thorough testing and error analysis, enhancing overall performance and reliability at Siemens Large Industrial Drives
- *Tech Stack* : C++, Python, Angular, Qt, Docker, AWS

Senior Associate Consultant

NTT DATA

📅 07/2016 - 08/2017   📍 Bangalore, India

- Developed a banking and investment platform using Java, enhancing transaction processing efficiency by 30%. Contributed in development of secure financial features and optimized backend performance, resulting in a 25% reduction in system latence
- Improved efficiency by {30%} using Java, SQL, and Python for backend optimization

EDUCATION

MS in Communications and Signal Processing

FAU Erlangen-Nürnberg

📅 10/2017 - 03/2020   📍 Erlangen, Germany

Bachelor of Technology in Electrical Engineering

Jawaharlal Nehru Technological University

📅 07/2012 - 05/2016   📍 Hyderabad, India

LANGUAGES

Kannada	**English**
German	**Hindi**
Telugu	**Tamil**

PUBLICATIONS

RadarConf'20, Florence, Italy

🔗 https://ieeexplore.ieee.org/document/9266434

Contributed 70% on IEEE Paper for detection of multiple targets in a radar scene with single stage approach using artificial intelligence techniques

KEY ACHIEVEMENTS

⚡ **Cost Optimization in DevOps**
Pioneered an DevOps cost cutting project, leading to a 30% improvement in usage and performance

Successful Project Area Transition
80% Active Contribution to migrate project to operate with given regulations and efficiency boost.

💎 **Improved Firmware Quality**
Increased measurement accuracy by 3% in WLAN 11ax firmware.

SKILLS

C++   Python   Node.js   Flutter   React

TypeScript   REST   gRPC   MongoDB

SQL   Matlab   Figma   Chai+Mocha

PyTest   SCPI   Playwright   Jenkins

Docker   Kubernetes   Redis

COURSES

Udemy
React

Udacity
Nanodegree in AWS Cloud Developer, Deep learning

PASSIONS

⭐ **Interests**
Playing Badminton, Table Tennis Photography, Travelling, Cooking

💡 **Skills**
Polyglot (Kannada, English, German, Hindi, Tamil, Telugu). Written and verbal communication skills to articulate complex technical concepts to clients enhancing project understanding and efficiency

DAY OF MY LIFE

Fuse creativity with technical skills to craft innovative solutions and streamline complex challenges into seamless user experiences. Well done, is better than well said!