SRIKANTH ANANTHARAM

A result-oriented professional, targeting assignments in

Software Engineering

with an organization of high repute, preferably in

Bengaluru / Hyderabad / Chennai

CONTACT ME AT

Bengaluru

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EDUCATION

- Masters in Industrial Automation and Robotics Technology from NIE, Mysore with CGPA 9.40 in 2015
- Bachelors in Electrical and Electronics Engineering from NMIT, Bengaluru with CGPA 8.14 in 2012
- Diploma in Electrical and Electronics Engineering from SJP, Bengaluru with 65.28% in 2009
- SSLC from GHS, Bengaluru with 88.16% in 2006 (Secured School First Rank)

CORE COMPETENCIES

- Application Development
- Automation Engineering
- Robotics Engineering
- Image Processing
- Computer Vision
- Image Analysis
- Pattern Recognition
- Artificial Intelligence
- Requirement Gathering
- Testing and Troubleshooting
- DevOps Engineering
- Client Relationship Management

PROFILE SUMMARY

- An achievement-driven **versatile Software Practitioner with nearly 8 years of rich and extensive experience**
- **Skilled at analyzing information system needs**, evaluating end-user requirements, designing custom solutions and troubleshooting complex information systems
- **Multi-disciplinary exposure gained by working** in a variety of proofs-of-concept & projects related to Sensor Fusion, Robotics, Image Processing, Embedded Systems, Internet of Things, Artificial Intelligence, Test Automation & Functional Safety
- **Proficient at maintaining quality of applications**, delivering high-quality customer experience while adhering to the SLAs and work processes
- Experienced in using various **software development methodologies such as Agile**, Scrum, Waterfall, etc
- Capable of **recognizing prospects to improve current software** by employing innovative problem-solving techniques, optimizing code, and strategically integrating new features
- Extensive experience in developing applications using various programming languages **such as Rust, Python, C++, C** and MATLAB; also familiar with C#, HTML, CSS and JavaScript
- Well versed in using **Linux and Windows** operating systems; also familiar with **macOS**
- **Highly skilled in Build / Release / Software Configuration using various DevOps tools** such as Visual Studio, Visual Studio Code, Eclipse, PyCharm, MATLAB, Git, GitHub, GitLab, Travis, AppVeyor, Jira, Confluence, Jenkins, MSBuild, CMake, Make, Docker, Kubernetes, AWS, Google Cloud, etc
- Profound hands-on **experience with embedded** micro-computers like: NVIDIA Jetson Nano, Intel Movidius NCS, Raspberry Pi, BeagleBoard-xM, Arduino, mbed, 8051
- **Experience with hardware/software interfacing technologies** like: UART, I2C, SMBus, SPI, PWM, GPIO
- **Strong work ethic**, positive attitude and leadership qualities with ability to work independently and in a team environment
- Passionate about **learning new technologies and keeping up with the latest trends**

WORK EXPERIENCE

Since Aug'22 with Saven Nova Technologies, Bengaluru
Technical Lead

Key Result Areas:

- **Developing hyper-spectral image processing solutions** for object detection and analysis
- **Designing and developing advanced algorithms** for dot blot detection and analysis for accurate analysis of biological data
- **Performing linear spectral unmixing of dot blot** and western blot images ensuring accurate identification and separation of specific signals
- **Preparing and preprocessing image datasets** for analysis, ensuring data quality and consistency
- **Conducting rigorous testing and evaluation** of image processing algorithms to assess the accuracy, efficiency and robustness
- **Collaborating with Front-End, Back-End and QA Teams**; streamlining end-to-end software development process

May'22 to Jul'22 with Emrit Inc., Remote
Senior Analyst

Key Result Areas:

- Evaluated and deployed openBalena for optimized management of IoT devices
- Developed software for implementing secure over-the-air firmware updates to the IoT fleet using peer-to-peer model with IPFS
- Streamlined DevOps pipelines for Debian packaging of the OTA software

Mar'21 to May'22 with L&T Technology Services, Bengaluru
Senior Engineer

Key Result Areas:

- Developed functional safety software stack for Embedded IoT in C
- Automated post-silicon validation with Python 3

SOFT SKILLS

- Team Player
- Collaborator
- Communicator
- Innovator
- Planner
- Thinker

CERTIFICATIONS

- Architecting with Google Kubernetes Engine Specialization from Coursera – Google
- Software Architecture: From Developer to Architect, Software Architecture Foundations from LinkedIn Learning
- Advanced Design Patterns: Design Principles from LinkedIn Learning
- Programming Foundations: Object Oriented Design, Programming Foundations: Test Driven Development from LinkedIn Learning
- Rust Essential Training from LinkedIn Learning
- C++ Best Practices for Developers from LinkedIn Learning
- How Git Works, Mastering Git, Working with Git Branches, Rewriting Git History from Pluralsight
- Python Desktop Application Development from Pluralsight
- HTML Fundamentals, JavaScript Basics, SQL Fundamentals from Solo Learn
- Introduction to Linux from edX – The Linux Foundation
- Internals of PC from Escube IT Systems Solutions
- Diploma in Office Management Application from MVS Computer Institute, Yalahanka

Jun'19 to Mar'21 with Wipro Technologies, Bengaluru
Senior Project Engineer

Key Result Areas:

- Maintained software projects related to multimedia analysis for test automation and Windows OS installation for validation
- Created GUI, adopting an MVC framework to assist developers in analyzing GNSS logs
- Developed backend and REST API development for a Chatbot specializing in log analysis

PREVIOUS EXPERIENCE

Dec'16 to Jun'19 with R&D Lab, UST Global, Bengaluru as Embedded Software Developer
May'14 to May'15 with MED, NIE, Mysore as Teaching and Research Assistant
Jul'12 to Jul'13 with R&D Center, NMIT, Bengaluru as Research Associate

TECHNICAL SKILLS

Cloud, DevOps	:	AWS, Google Cloud, Docker, Kubernetes, GitHub, GitLab, Travis, AppVevor
Data Science, Artificial Intelligence, Machine Learning & Deep Learning	:	Multi-sensor Data Fusion, Supervised Learning, Regression, Classification, Object Detection, Object Segmentation, pandas, scikit-learn, Keras, TensorFlow, PyTorch, MXNet, GluonCV, OpenVINO
Robotics & Automation	:	2D Differential-drive Mobile Robot, 1D/2D Cartesian Robot
Embedded Devices	:	NVIDA Jetson Nano, Intel Movidius NCS, Raspberry Pi, Arduino, BeagleBoard-xM, mbed, 8051
Tools, Libraries & Frameworks	:	PyMongo, Sphinx, Flask, PyQt5, Kivy, PySide2, IPython, SciPy, Matplotlib, NumPy, Cython, Angular JS, W3.CSS, GStreamer, SDL, OpenCV, Eigen, OpenSceneGraph
Coding Languages	:	Rust, Python, C++, C, Embedded C/ C++, MATLAB, SQL, MicroPython, Shell Scripting, PLC, LISP, HTML, C#, JavaScript
Operating Systems	:	Windows 11, UNIX-like: macOS, Raspbian, Ubuntu, Angstrom, Poky, Arch
Office Suites	:	MS Office (Word, PowerPoint, Visio, Excels), LibreOffice, WPS Office
IDEs	:	Visual Studio, Visual Studio Code, PyCharm, Spyder, Jupyter, MATLAB, Eclipse

PUBLICATIONS

- **Synthetic Aerial Image Generation for Miniature Aerial System**, presented paper at International Conference on Trends in Automation, Communication and Computation Technologies (ITACT), Acharya Institute of Technology, Bengaluru; published in IEEE Xplore in Dec'15
- **MAS Simulator: A Laboratory Set Up**, International Conference on Cognitive Computing and Information Processing (CCIP) at JSS Academy of Technical Education (JSSATE), Noida in Mar'15
- **PhotoScenery for Realistic Scene Generation and Visualization in FlightGear**: A Tutorial, presented paper at the International Conference on Emerging Trends in Electrical Systems (ICETES), Mar Athanasius College of Engineering (MACE), Kerala in Dec'14
- **Robotics Research at NMIT**, Indian Technology Congress, Bengaluru in Jul'13
- **Vision-based Interactive Robotic Exhibits for Museums**, first IEEE International Symposium on Cost-Effective Museum Exhibits in Engineering and Applied Science, Braj Mohan Birla Science Centre (BMBSC), Hyderabad in Dec'12
- **Development, Implementation and Optimization of Real Time Target Tracking Algorithms on BeagleBoard–xM**

PERSONAL DETAILS

Date of Birth: 4th May 1991
Address: Chandapura, Bengaluru- 560099
Languages Known: English, Hindi, Kannada and Telugu

Please refer to the annexure for a list of projects.

ANNEXURE

- Design and Development of Dot Blot Detection and Analysis Algorithm
- Linear Spectral Unmixing of Dot Blot and Western Blot Images
- REST Web Service Development
- Setting up DevOps Pipelines for Packaging Optimized Builds of IPFS and IPFS Cluster Programs
- Functional Safety Software Stack Development
- Post-silicon Validation Automation
- Back-end & REST API Development for Chatbot that performs Log Analysis
- Maintenance of Windows OS Installation Tool
- Maintenance of Multimedia Analysis Tool
- GNSS Log Analysis Framework (GLAF)
- ThingG
- iPLMS
- USB Device Testing Robot
- Deep Learning based PCB Asset Classification and Liveness Detection Robot
- Implementation and Validation of Vision-based Ground Target Geo–Localization for Miniature Aerial System
- PhotoScenery for Realistic Scene Generation and Visualization in FlightGear
- Design and Development of Robot Mechanisms, Vision and Control Algorithms
- māhiya: Development of a Real-Time Human Tracking Capability on a Mobile Platform
- Autonomous Mobile Robot Control, Localization, and Path Planning
- Soft-starter: Automatic Star-delta Starter using a Microcontroller

More details about the projects are available at
https://srikanth.one/#projects

My blog is live at
https://blog.srikanth.one/