Naga Venkata Sai Srujan Botlaguduru

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Summary:

Principal Engineer with **10+** years of experience building and validating large-scale distributed, graphical and embedded systems across storage, aerospace, travel and telecom. Proven at architecting scalable validation framework, improving engineering efficiency (up to **40%**), and leading cross-functional teams to deliver **130+** enterprise releases at, SanDisk, Amadeus, and Honeywell.

Skills:

Systems & Architecture: Distributed Systems, Domain-Driven-Design, Microservices, System-Design, Cloud Computing (Azure)

Core Languages & Frameworks: Python, C++, C, TypeScript (learning), Pytest, Transformers(Model Definition), Scikit-learn & Torch (ML/DL), Qt (GUI)

Protocols & Low-Level Systems: SCSI, USB

DevOps & Tooling: CI/CD, Jenkins, Kubernetes, REST, SOAP, Visual Studio Code, draw.io

Leadership: Technical Mentoring, Cross-team Workflow Reviews, Stakeholder Alignment

Professional Experience:

SanDisk   **Bangalore**

Principal Engineer   **Nov 2024 - Aug 2025**

- Rearchitected a **4**-layer storage validation work-flow using Domain-Driven Design (event storming, bounded context), reducing cognitive load for new engineers and improving validation accuracy, contributing to a **5%** faster onboarding and iterative cycle.
- Engineered USB-Apple powered communication API flow of multi-layered code using Python and C++, enabling non-native USB communications to Apple devices using **2** mediums such as CiDER and CP210 boards, serializing communications by **60%**.
- Led platform-wide analysis of **10+** flash domain services across SCSI and NVMe, unblocking **30+** validation bottlenecks and influencing **~30%** of the product roadmap.

Amadeus   **Bangalore, London**

Software Development Engineer 3   **Jan 2022 - Sep 2024**

- Spearheaded data migration for **4** global airlines, introducing Python scripts to meet airline specific requirements, improving migration error handling by **5%** and reducing downtime by **70%**.
- Evolved as a full stack engineer, enhancing the migration project in **2** systems using Python and C++, identifying **2** patterns such as singleton, facade etc., validating relevant changes using **2 NodeJS** desktop applications, covering **2** security audits.

Honeywell   **Bangalore, Hyderabad**

Embedded Engineer II / Software Engineer II / Software Engineer   **Jan 2018 - Dec 2021**

- Incorporated **15** middleware services (including **5** client-specific services using SOAP) for **3** types of surveillance camera models in C++, coordinating with **2** cross-functional (offsite & onsite) teams, maintaining scalability, resulting in first-class camera firmware delivery for **5** customers.
- Enhanced a **4**-tabbed aircraft data loader **GUI** application in C++ with **40** bench tests, resolving **200** Jira stories/issues, supporting **80** subsequent deliveries to **4** customers, and improving data loading on aircraft systems by **60%**.
- Leveraged Object Oriented Programming skills, adhering to **5** coding principles, following **3** design and **1** architectural patterns such as abstract factory, MVC, multi-layered architecture e.t.c.

TCS   **Hyderabad**

Software Engineer   **Feb 2017 - Dec 2017**

- Customized Billing System for **4-5** client-specific needs, ensuring smooth operations for enterprise telecom customers, delivering **4** projects on-time.

MagnaQuest   **Hyderabad**

Software Engineer   **Jun 2015 - Feb 2017**

- Implemented **2-3** standalone Windows applications, creating certificates to perform **3** cryptographic operations, giving a reference to seniors.
- Ported proprietary library code from Windows to Linux platform, following monolithic arch, enabling **6** cryptographic operations in Linux platform.
- Explored and designed a **User Interface** as a MVP, reading **3** types of smart card information for representing results **graphically** to a team of **15-20** and then to a client.

Contributions & Projects:

- Cab Sharing System with visuals — System-Design-Masterclass | Open Source Contribution
- Try A Template — A graphical representation of CS Concepts, AI Explorer — A desktop application that illustrates AI Concepts | Custom Projects

Recognitions & Impact:

- Multiple engineering excellence awards across Amadeus, Honeywell, and TCS for system reliability, delivery ownership, and cross-team leadership.
- Open-source contributor with demonstrated ability to translate complex CS concepts into scalable learning artifacts.

Education:

Audisankara College of Engineering & Technology, B.Tech - CSE   **June 2009 - April 2013**