**VINAYAK SHASTRI**

Adelaide, SA, Australia

vinayakshastri3@gmail.com | Mobile 0434 262 762

**Software Engineer | C++/Java/Python Developer**

**SUMMARY**

* Over **3 years’ software development** experience working on various engagements involving in product delivery and technical support projects.
* Proven track record in developing performance intensive and scalable android application following clean coding practices and to deliver on time considering business criticality.
* Excellent hands-on knowledge in programming languages: C++, Java & Python.
* Up-to-date with newer C++ versions like C++17, C++20 and knowledge of C++ Standard Template Libraries (STL) and Boost libraries.
* Possess solid understanding of object-oriented programming, memory management, algorithms and data structures.
* Excellent communication and teamwork skills, with the ability to collaborate effectively with other developers, project managers, and stakeholders.
* Successfully completed multiple end-of-sprint presentations, demonstrating the team's progress and accomplishments to stakeholders and receiving positive feedback from leadership.
* Microsoft Certified:
  + Azure Data Fundamentals
  + Microsoft Certified: Azure AI Fundamentals
  + Microsoft Certified: Azure Fundamentals
* Demonstrated excellent troubleshooting skills, debugging, bug-fixing and testing for applications built on technologies like C++, android (Java) & Python.
* Proficient in tools like gdb, valgrind, calgrind, adb for debugging and performance benchmarking.
* Exposure to the ticket management applications like – Jira, IBM ALM and IBM Jazz.
* Excellent time management skills demonstrated in picking up and resolving high priority and business-impacting issues to meet SLA.
* Experience involving in various Software Development Life Cycle (**SDLC**) phases of **agile project**.
* Skilled in writing queries and stored procedures with Oracle SQL Developer Tool.
* **DevOps evangelist** – Experienced working with DevOps mindset to remain focused on and to contribute to organization's ability to deliver applications and services at faster pace.
* Skilled in using data analytics and logging tool like Splunk and Graphana for performance monitoring of the application under heavy user load.
* Experienced using DevOps tools like – OpenShift, Jenkins and Docker.
* Excellent knowledge of Linux **platform** and command line usage for daily activities.
* Domain knowledge across **various industries** such as **automotive and travel** technology.
* Understanding of programming - SQL, HTML, XML, CSS, VB Script, Excel Macro & C.
* Have expertise in **Microsoft Office suite** - MS Word, MS Exceland MS PowerPoint.
* Skilled with version control systems like git hosted on various platforms like Bitbucket and Gerrit.
* Sound understanding of software design patterns and best industry practices.
* Able to write efficient and optimized code for performance and memory usage.

**PROFESSIONAL EXPERIENCE**

**Software Engineer – Harman International Inc. Feb 2022 to Dec 2022**

* Designed and implemented vehicle diagnostic protocols and algorithms for Android-R platform, utilizing industry standards such as UDS, resulting in improved diagnostic accuracy and reliability.
* Developed and maintained automotive software applications using C++ programming language, ensuring high performance, reliability, and security in compliance with industry standards and regulations.
* Collaborated with cross-functional teams including hardware engineers, software testers, and project managers to ensure successful development and delivery of products within tight timelines.
* Conducted code reviews and implemented best practices to ensure adherence to coding standards and industry best practices, resulting in improved code quality and maintainability.
* Participated in agile development processes, including sprint planning, daily stand-up meetings, and end-of-sprint presentations, resulting in successful product releases and positive feedback from stakeholders.

**Software Development Engineer – Amadeus IT Group Aug 2020 to Feb 2022**

* Isolated business logic layer from the database layer of the PNR Queues product, following a separation of concerns architecture pattern.
* Designed and implemented APIs and interfaces to enable communication between the two layers, without creating tight coupling.
* Developed an abstraction layer to shield the business logic from the underlying data storage details, improving maintainability and testability.
* Achieved better performance by optimizing the database layer for data storage and retrieval, while the business layer was optimized for processing and logic.
* Contributed to easier maintenance and upgrades of the application, as changes could be made to one layer without affecting the other.
* Demonstrated strong understanding of the application's architecture and requirements, as well as effective design and communication skills to ensure successful implementation.
* Worked on migrating PNR Queues application hosted in private data-center to public cloud on Microsoft Azure.

**Software Engineering Intern – Amadeus IT Group Jan 2020 to June 2020**

* Designed and developed a new cryptic service for PNR/Message Queues that effectively displays cryptic admin entries on the green screen in Amadeus. This includes designing a user-friendly interface that allows travel agents and supervisors to easily access and use the new service.
* Conducted rigorous testing and debugging of the new cryptic service to ensure that it is functioning properly and meeting the needs of travel agents and supervisors.
* Successfully published the new cryptic service for PNR/Message Queues on the Amadeus platform, making it available for travel agents and supervisors to use. This includes providing documentation and support to ensure that users are able to effectively utilize the new service.

**EDUCATION AND CERTIFICATION**

* Master of Computer Science from The University of Adelaide, North Terrace – (Feb 2023-Nov 2024)
* Bachelor of Engineering (Electronics & Communication) from Ramaiah Institute of Technology, Bangalore – 2016-2020
* Microsoft Certified: Azure Data Fundamentals, Azure AI Fundamentals, Azure Fundamentals