**Sanaharika Thallada**

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**SUMMARY**

Highly motivated and results-oriented Full-Stack Java Developer with 3+ years of experience in designing, developing, and optimizing high-performance applications. Proven ability to craft and develop Python APIs, leveraging expertise in Python and C++. Seeking to leverage skills in performance analysis, benchmarking, and optimization of numerical software on CPU and GPU architectures to contribute to the development of high-performant Python APIs for NVIDIA’s math libraries.

**EDUCATION**

**Saint Louis University**   
*Master of Science, Information Systems* *•* CGPA: 3.63/4.0

**Saint Louis, Missouri**   
 *Aug 2023 – May2025*

*•* Coursework: Mobile &Web App Development, Data Visualization & Analysis, AWS, Statistics, Tech& Start-ups

**EXPERIENCE**

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| **Cognizant Technology Solutions — Titan** *Full-Stack Java Developer* | **Hyderabad**  *Aug 2020 – Jul 2023* |

*•* Developed and maintained full-stack Java applications, resulting in improved efficiency and scalability.*•* Collaborated with cross-functional teams to design and implement new features and functionalities.*•* Consistently delivered high-quality code within tight deadlines, exceeding performance expectations.

**Cognizant Technology Solutions** *Intern – Programmer Analyst*

**Pune, Maharastra**   
*Jan 2020 – May 2020*

*•* Contributed to the development of software applications, gaining hands-on experience in various programming languages and technologies.

*•* Assisted senior developers in debugging and troubleshooting software issues, improving problem-solving skills.

*•* Successfully completed assigned tasks, demonstrating a strong work ethic and commitment to learning.

**PROJECTS**

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| **High-Performance Linear Algebra Library in Python** | *Jan 2022 - Dec 2022* |

*•* Developed a Python API for linear algebra operations, optimized for performance on both CPU and GPU architectures.

*•* Implemented efficient algorithms for matrix multiplication, LU decomposition, and eigenvalue calculations.

*•* Integrated the library with NumPy and SciPy for seamless integration with existing Python workflows.

**GPU-Accelerated Numerical Solver**  *May 2021 - Aug 2021* *•* Designed and implemented a GPU-accelerated numerical solver for solving partial differential equations. *•* Utilized CUDA to optimize the performance of the solver on NVIDIA GPUs.

*•* Achieved a significant speedup in computation time compared to CPU-based implementations.

**Python API for Scientific Computing**  *Oct 2020 - Dec 2020* *•* Created a Python API for a variety of scientific computing tasks, including integration with external libraries. *•* Focused on designing a user-friendly and intuitive interface for ease of use.

*•* Successfully tested the API across different platforms and hardware configurations.

**SKILLS**

**Languages & Frameworks:** Java, C, C++, Spring Boot, Hibernate, Angular2/4/8, React, Node.js, JSP, Servlets, MVC   
**Frontend:** HTML5, CSS3, JavaScript, jQuery, JSON, XML, XSLT   
**Web Services:** REST , SOAP   
**Cloud &DevOps:** AWS, Azure, Docker, Google cloud,   
**Tools:** Jira, Confluence, GitHub,GitLab, Postman, Elasticsearch

**CERTIFICATIONS (UDEMY)**  
 Agile Project Management  
 Relational Database Design  
 Responsive Web Design