Harsha Lokesh

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EDUCATION

- **Vellore institute of technology, Vellore** — Vellore, India
  Bachelor of Technology - Computer science engineering with specialization in IoT; Grade: 8.50 — 2019 - 2023
  Courses: *Statistics for engineers, Data Structures and algorithm, DBMS, Network and communications, Principles of cloud computing, Embedded System Architecture and Design, Programming in JAVA/C++.*

- **National public school, Rajajinagar** — Bangalore, India
  High school education - CBSE; Grade: 93% — 2017 - 2019

- **National public school, Rajajinagar** — Bangalore, India
  Primary and middle school education - CBSE; Grade: 9.40 — 2005 - 2017

WORK EXPERIENCE

- **Amadeus Software Labs** — Bangalore, Karnataka
  Software Developer Engineer - 1 (Full-time) — *July 2023 (1 year - present)*
  * **Software development**: Led integration projects with American Airlines, driving the design, documentation, and implementation of workflows to ensure seamless software deployment. Solely responsible for developing and managing a key software component and overseeing the end-to-end execution of customer-facing projects.
  * Spearheaded back-end software deployment for the Amadeus Finance and Revenue Accounting (ARA) division, focusing on enhancing system functionality through C++ and Python, microservices, and front-end.
  * Optimized existing ARA components by implementing backend solutions, conducting unit testing, and managing database systems to improve overall system performance and reliability.

- **Amadeus Software Labs** — Bangalore, Karnataka
  Software Developer Intern — *Jan 2023 - June 2023 (6 months)*
  * **Software Engineering**: Developed automation scripts to streamline service request processes, significantly reducing manual workload by 20% and minimizing errors by 15% for the implementation team. Created tools for database population and testing, facilitating cloud readiness for software component migration within the Amadeus backend.

- **Calligo technologies** — Bangalore, Karnataka
  Software Intern — *June - Aug 2022, Nov - Jan 2022-23 (6 months)*
  * **Machine learning/Software Engineering**: Engaged in research and development for a cutting-edge software solution utilizing CNN and GANs to enhance medical imaging for retina analysis. Developed image processing models using TensorFlow and Keras, focusing on high dynamic range (HDR) to low dynamic range (LDR) image conversions.

PROJECTS

- **Amadeus passenger revenue accouting**: Development on Amadeus real-time revenue accounting system for airlines, enabling accurate tracking of earned and unearned revenue by processing files massively. Collaborated with cross-functional teams to define customer requirements and implement solutions, Designed and implemented Kafka-based event-driven architecture to facilitate real-time data processing, improving system responsiveness. Design and delivery of entire GUI workflow interface.
  Technologies: C++, Python, HTML, CSS, JavaScript, Oracle DB, Linux, Kafka.
- **Web Development and delivery**: Worked closely with product managers and designers to ideate and implement new features, ensuring alignment with business goals. Developed and maintained codebases, facilitating smooth integration across different technologies. Conducted code reviews and collaborated on bug fixes, enhancing code quality and project stability.
  Technologies: HTML, CSS, JavaScript, Python, Scala, Jenkins, Git.

PUBLICATIONS

- **A comprehensive study on IoV Intelligent systems with machine leaning model development**: Published paper that proposes using models to train vehicles in order to prevent accidents and detect accident severity for emergency services. Journal:- https://www.taylorfrancis.com/chapters/edit/10.1201/9781003428459-22/ Tech: Python, machine learning.
- **Machine learning on small scale embedded medical systems for fundus image comorbidity detection and analysis**: Ongoing paper in the process of publication, based on TinyML and edge computing technologies. Tech: Python, computer vision, Tensorflow, Keras.

CERTIFICATIONS

- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning - March 2022

SKILLS SUMMARY

- **Technical**: Python, C, C++, Java, JavaScript, Automation, Testing, CSS, HTML, Git, Jenkins, shell scripting, Linux, SQL, DevOps, XML, BOM, JSON, MATLAB, Object-Oriented Programming (OOP/OOD), APIs, Agile Framework.
- **Languages**: English, Kannada, Hindi.
- **Interest**: Hockey, Cricket, Tennis, Formula-1, Volunteering, Hiking.