NIHITHA REDDY SEELAM

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EDUCATION

Auburn University, Auburn, AL **Aug 2022 - May 2024**
Master of Science in Computer Science and Software Engineering ***Cumulative GPA: 4/4***

Relevant Coursework:
Advanced Computer Architecture, Database Systems, Machine Learning, Advanced Topics in Algorithms, Advanced Topics in Operating Systems, Data Mining, Software Quality Assurance, User Design and Interface, Intermediate Statistical Methods for Data Science and Cloud Computing.

Koneru Lakshmaiah Education Foundation, Guntur, India **Jun 2016 - Jun 2020**
Bachelor of Technology in Computer Science and Engineering ***Cumulative GPA: 9.16/10***

Relevant Coursework: C Programming and Data Structures, Operating Systems, Platform Based Development, Artificial Intelligence, Cloud Computing, Computer Networks, Algorithm Design and Analysis, Language and Compilers.

TECHNICAL SKILLS

Programming Languages Android, Java, Python, SQL, C, R, DBMS, HTML, CSS, JavaScript.
Tools and Technologies: MySQL, Visual Studio Code, Jupyter, Git, SVN
Operating Systems: Windows, MAC OS, Linux.

WORK EXPERIENCE

RFID Lab – Auburn University, Auburn, AL **Apr 2023 – present**
Graduate Assistant

- Collected and analyzed data for large-scale RFID projects, following the Software Development Life Cycle (SDLC). Tested and maintained systems in controlled lab environments using RF equipment.
- Paid close attention to detail and ensured quality control by analyzing data meticulously. Produced reports with clear technical documentation, aiding effective communication with customers for informed decision-making.
- Demonstrated proficiency in software debugging and change management, excelling both independently and collaboratively in time-sensitive projects. Collaborated well within teams, utilizing strong communication skills to enhance problem-solving and analytical capabilities in information systems.

Hyundai Mobis, Hyderabad, India **Sep 2020 – Jun 2022**
Research Engineer

- Created new features for USB Music/Video streaming and the user interface in vehicle infotainment systems. Followed the software development life cycle to ensure smooth development. Identified software issues and fixed them efficiently, showcasing skills in coding and debugging.
- Responsible for Android application development using Java Programming language. Coordinated with frequent production releases, showcasing change management skills.
- Collaborated and built scalable, high-performance features for head units, maintaining software code repository that includes APIs for critical systems in computer science and computer systems.

PROJECTS

Beauty and Joy of Computing: An E-learning Website **Oct 2023 – Nov 2023**

- Led the creation of an innovative e-learning platform for Beauty and Joy of Computing, showcasing flexibility in adapting to diverse requirements. Developed comprehensive lessons on programming languages and the 7 big ideas of computing.
- Utilized HTML, CSS, and JavaScript to develop a user-friendly interface, ensuring a seamless and engaging learning experience.
- Emphasized simplicity and optimization to enable users to effortlessly access information, demonstrating articulate written communication skills and fostering a gratifying and entertaining educational environment.

Deep Residual Learning for Image Recognition **Mar 2023 – Apr 2023**

- Developed a program to recognize images by training our model in Residual Networks, demonstrating problem-solving skills in handling complex deep neural networks for image recognition.
- Used the CIFAR-10 dataset to train our model in a deep residual network, showcasing an ability to lead and coordinate tasks effectively.
- Using residual networks, we could notice how effective and congenial it is to use rather traditional convolution neural networks.

Music Genre Classification using Multi-Layer Perceptron **Oct 2022 – Nov 2022**

- Developed a model for accurately detecting a song's genre, showcasing problem-solving skills in constructing categorization models. Used the GTZAN dataset for training various models.
- Analyzed the effectiveness of three types of models—Support Vector Machine (SVM), Random Forest (RF), and two- or three-layered Multi-Layered Perceptron (MLP). Showed leadership by making informed decisions based on the comparison.
- Trained machine learning classifiers for datasets of different durations, highlighting scheduling flexibility, and compared their performance.

Online Bookstore Management System **Oct 2022 – Nov 2022**

- Developed a flexible database using MySQL for an online bookstore system, showcasing an ability to adapt to changing requirements.
- Built a database by making tables and filling it with information. Clearly communicated through well-documented steps. Also, set up PHP and HTML interfaces, enabling users to interact with the database by entering SQL queries.