# Sri Lakshmi Polavarapu

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## EDUCATION:

**Master's in Computer Science** September 2023 - June 2025
Portland State University, Portland, USA **GPA: 3.67 / 4**

**M.Tech Integrated Software Engineering** July 2018 - June 2023
Vellore Institute of Technology, Chennai, India **GPA: 3.9 / 4**

## TECHNICAL SKILLS:

**Programming Languages:** Python, Java, R, JavaScript (ES6+), C#, TypeScript, PHP
**Web Development:** HTML, CSS, jQuery, React, Bootstrap, Node.js
**Cloud Platforms:** AWS, Google Cloud Platform, Microsoft Azure, Heroku
**Database Management:** MySQL, PostgreSQL, Hive, MongoDB
**Machine Learning & Data Science:** PyTorch, TensorFlow, Keras, NumPy, Pandas, SciPy, Matplotlib
**DevOps:** Jenkins, Kubernetes, Docker, Git Version Control,
**Tools:** ChromeDev Tools, Wireshark, Tableau - visualization, Unity3D
**Agile Methodologies & Testing:** Agile methodologies, Unit Testing

## PROFESSIONAL EXPERIENCE (~1 year):

**Software Engineering Intern - Unity Programmer |** *Qneuro India Private Limited* June 2022 - May 2023

- Designed and Developed games, including Predators Clash, Find Letters Game, Ping Pong Game, and Arkanoid Game. Implemented advanced features like Physics, Animations, Audio Effects, Particle systems and Augmented Reality.
- Collaborated with a team to implement and work on game play mechanics and user interfaces.

## ACADEMIC PROJECTS:

**Color Transfer Between Images | Python, Colab** March 2024 - April 2024

- A Computer Vision project for developing precise color correction by transferring color characteristics between images.
- Utilized OpenCV for image loading and saving, showcasing proficiency in image processing.
- Implemented BGR to RGB, RGB to LAB, and LAB to CIECAM97 conversions using OpenCV.
- Achieved RMSE score < 0.3; validated on various source and target images.

**Image Captioning using CNN and LSTM | Python, Colab** January 2024 - March 2024

- A Deep Learning and Computer Vision project built using CNN and LSTM architectures for generating captions.
- Implemented using VGG16 pre-trained model for extraction. Used TensorFlow, Keras for building Neural Networks.
- Gained BLEU score of 0.64, which is used to evaluate the quality of generated captions and CIDEr score of 3, which focuses on measuring the consensus between the generated caption and human annotations.

**Internet Chat Application | Networking - Python** October 2023 - December 2023

- A networking server-client project built using python, which provides data exchange between clients and servers.
- This application includes features such as private chat rooms, data encryption and user authentication.
- Python's socket programming is used for network connection and data transmission and handling.

**Analysis of Indian Premier League data | Python** December 2021 - April 2022

- A Machine Learning project built using various Machine Learning algorithms (K-means, Random Forest, Logistic Regression, Naive Bayes and Decision Tree Classifier).
- Utilized Rpubs and Tableau tool for visualizing the patterns.
- Gained an accuracy of 95% for Random Forest, 92% for K-means, 92.05% for Logistic Regression, 90% for Decision Tree, 87% for Naive Bayes Classifier.

**Snake and Ladder Game | Java | OOP | DSA** December 2021 - April 2022

- A Snake and Ladder game implemented using principles of Object-Oriented Programming and Data Structures in Java.
- Utilized Java Swing and Java applets for GUI elements.
- Created backend data for users to play the game using the command line. Employed OOP concepts to organize code and enhance maintainability of code.

**Hotel Management System | Web Development | PHP | SQL** December 2019 - April 2020

- A web application developed using front-end and back-end development.Deployed in AWS and Heroku.
- HTML, CSS, JavaScript were used for user interface while PHP, server-side scripting used for interaction with XAMPP database for data storage. Also used SQL for storing user account information.

## COURSEWORK

Data Structures, Algorithm Analysis and Design, Machine Learning, Artificial Intelligence, Computer Vision, Deep Learning, Database Management, Software Engineering, Cloud Computing, Code Reading & Review, Frontend Web Development, Big Data Analytics.

## CERTIFICATIONS

- Successfully completed Big Data Foundations course from IT-ITeS Sector Skill Council NASSCOM. August 2021
- Successfully completed Artificial Intelligence course from VITOL. June 2020
- Successfully completed Java Programming course from IIT Madras with a Grade - A. October 2019