

# Kusuma Priya Emandi

## Software Development Engineer

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**Date of Birth:** 18/05/1999

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Grounded and solution-oriented Computer science engineer with a strong foundation in math, logic, and cross-platform coding. Possess 2+ years of experience with Unified Server Computing and Hyperflex technologies, as well as solid knowledge of server virtualization with the fundamentals of Linux. Fervent about business and data analytic strategies.

### WEBSITES & SOCIAL LINKS

[Personal website](#) | [Virtual Reality Demo](#) | [SLAM Visualization](#)

### EDUCATION

**Master of Science in Business Analytics ▶ University Of Texas, Dallas** **Jan 2023 - Pursuing**

CGPA: 4.0

**Bachelor of technology in Computer Science ▶ MVGR College of Engineering** **Jul 2016 - Jun 2020**

CGPA: 9.12

### EXPERIENCE / INTERNSHIP

**Technical Consulting Engineer ▶ Cisco Systems India Pvt. Ltd., Bangalore** **Aug 2020 - Dec 2022**

- Technical engineer with 2+ years of experience in debugging complex networking and computing problems by simulating customer issues of various scopes.
- Verify and deploy datacenter networks for multiple customer data centers
- In-depth expertise in Linux, Server Computing, and Virtualization for troubleshooting and resolving issues in high-level and low-level computing machines.

**Data Center Network Intern ▶ Cisco Systems Pvt. Ltd.** **Jan 2020 - Jun 2020**

- Advanced the knowledge on concepts of Routing and Switching through CCNA training in the first two months of the internship.
- Propounded an idea for automation of Application Centric Infrastructure User Interface and received a connected recognition for the same out of 120 models proposed.

**ML Research Engineer ▶ Trebuchet, Kochi** **Sep 2018 - Jan 2020**

- Trebuchet is a disruptive startup focused on bridging the gap between customer and online shopping using Augmented Reality (AR) and Machine Learning (ML).
- Collaborated on a prototype of an AR application that uses semantic segmentation to capture the orientation of the user's foot. This system has now been successfully ported into android and a kiosk has been developed using Qualcomm DragonBoard.

**Software Trainee ▶ Veegam Software** **May 2018 - Jun 2018**

- Developed a synthetic reliability assurance engine that is used for calculating the performance grade and availability of a website. This monitoring tool helps users to check their website status and also guides the clients in improvising their page performance.
- In addition, the key role of the job includes modernizing systems by investigating and analyzing new IT developments and contemporary business practices.

### PROJECTS

**3rDEye** **Oct 2022 - Present**

Developed an ecosystem that aims to help people with visual challenges navigate new areas which they may not have experienced before. It helps them find things and locations they need. It also helps anyone people find personal items they've misplaced.

### Virtual Reality Walking Simulation

Aug 2021 - Sep 2021

- Created a skeletal model of a humanoid in WebXR from scratch. Developed a framework for easy animation of objects in 3D space in WebXR. Animated the humanoid to walk around the room.

### Matrix Factorization Recommendation System Using ALS and SGD Optimization

Jan 2020 - May 2020

- Developed a hybrid recommendation model that concentrates on analyzing and differentiating two complex algorithms in use and synthesizing a matrix factorization recommendation algorithm.
- Inculcated a hybrid optimization technique that combines Alternating Least Squares (ALS) in the initial stage and Stochastic Gradient Descent (SGD) in the advanced stage.
- This approach can be easily implemented in the real world as the problem of cold start can be easily reduced.

### ARware

Sep 2019

- Allow customers to try on clothes before they purchase using AR.
- Collaborated on implementing the machine learning and 3D model aspects of the project

### Genre based Movie Recommendation System

Oct 2018 - Dec 2018

- Spearheaded a three-person project team in developing a personalized movie recommendation system. This project is based on an item-based collaborative filtering algorithm in which user preference based on the movie genre is added to the movie rating in order to compute the similarity aimed at user preference. This technique can reduce the amount of data and improve the quality of recommendations. The experimental results indicate that the approach outperforms the traditional collaborative filtering methods.

### Reliability Assurance Engine

May 2018 - Jun 2018

- Refined a synthetic reliability assurance engine for Veegam Software Company, Hyderabad. This tool checks the performance of various sites. The tool is currently being used by major telecommunication companies all over India.

## Professional Enhancements

### Conferences/Seminars

- Delivered a paper on the personalized recommendation system at the third international conference, ICECCOT-2018, which was held at the GSSS Institute of Engineering and Technology in Mysore.
- Associated with the "SWECHA" technical summer camp, which includes IoT, Python, and talks on digitalization and cyber security.
- Engaged in an Internet of Things workshop, which helped me understand the basic concept, applications, and significance of the Internet of Things.

### Certifications

- Machine Learning, Data Science, and Deep Learning
- Python and Introduction to Data Science
- CCNA Cyber Ops Students Workshop
- CCNA R&S: Introduction to Networks
- CCNA R&S: Routing and Switching Essentials
- DevNet Associate Exam v1.0
- Cisco Certified Network Associate
- Data Science Cisco Green Belt

## EXTRA-CURRICULAR

### Achievements

- Volunteered as an academic support member and mentor at Make A Difference organization for 2 years.
- Achieved Data Science Green Belt in Cisco Systems, Inc.
- Received the "You Inspire Award" from the Senior Director of the APJC CX Center for the project idea proposed during my internship with Cisco, "Automation of Application Centric Infrastructure User Interface."

Languages ► English, Hindi, Telugu

## SKILLS ( TECHNOLOGY / FUNCTIONAL )

C | JAVA | Python | Web Development | DBMS | Routing and Switching | Deep Learning and Data Analysis | Client Relationship Management | Python | WebXR | OpenCV | OpenGL | WebGL | Pytorch | CUDA | Data Science