

# DEVI ESWAR KUMAR DAMERLA

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Available Starting May 2024

## EDUCATION

### Master of Engineering, Computer Science (3.58 GPA)

Dec 2024 (Expected)

*University of Cincinnati, College of Engineering and Applied Science, Cincinnati, Ohio*

**Coursework:** Advanced algorithms, Machine Learning, Advance Database Management, Deep Learning, Advanced Software Engineering, Software Architecture, Software Testing and QA.

### Bachelor of Technology, Computer Science (3.5 GPA)

Jul 2021

*Sagi Rama Krishnam Raju Engineering College, Bhimavaram, India*

**Coursework:** Data Structures, Operating Systems, Computer Networks, Cloud Computing, Competitive Coding, Big Data Analysis

## EXPERIENCE

### Associate Software Engineer, Airbus Group India Private Limited, Bengaluru, India

Aug 2021 – Jul 2023

- As a Full Stack Developer in the digital mockup team supported the engineering and PLM. Developed LAMP(Linux, Apache, Mysql, and PHP)based applications in the inception phase and automated design quality assessments within the initial 6 months.
- Optimized SQL queries supporting the Business Activity and Management dashboard slashed query execution time by 50% resulting in faster data insights and improved decision-making.
- Developed MEAN(Mongo, Express, Angular, Node.js/Next.js) stack applications, and revolutionized the visualization of complex 2D and 3D CAD models of aircraft parts which removed the CATIA License dependency and reduced cost by 60%.
- Along with the development of multiple POCs, I have also enhanced LAMP stack applications for the Design Quality Check Team.
- Decommissioned MS tools in these legacy applications, and replaced VBScript with PHP, mitigated cost by 40%.

### Intern( Machine Learning Engineer), TheSmartBridge Private Limited, Hyderabad, India

May 2019 – Jul 2019

- Initiated the creation of a machine learning model for precise chronic kidney disease diagnosis during the internship.
- Leveraged medical report parameters to achieve exceptional accuracy. Seamlessly integrated the 95% accuracy model into a Flask web application.

## SKILLS

- **Programming Languages:** Python, PHP, Java/J2EE, R, C, C++, C#, Shell Scripting
- **Web Technologies:** JavaScript, TypeScript, jQuery, JSP, HTML5, CSS, XML, JSON
- **Frameworks:** Angular, NestJS, NodeJS, ExpressJS
- **Machine Learning Frameworks:** TensorFlow, Keras
- **Database Tools:** SQL Server, MySQL, JDBC, MongoDB, Redis, SQL, PL/SQL
- **Server and Cloud Infrastructure:** Nginx, Apache Tomcat, Apache HTTP Server, IIS, AWS, OpenShift, Docker
- **Agile Tools:** JIRA, VersionOne
- **Version Control:** Git

## ACADEMIC PROJECTS

Led teams in two image-processing projects

### Context Driven Image Narration

Nov 2023

- Built a system using ResNet50 and a custom model, achieving 79.7% accuracy in generating contextually rich image captions from the Flickr30k dataset. Explored GPT and concealed object recognition for future improvements.

### Fast Enhancement of Low Light Images Using CNN

Apr 2021

- Designed a novel CNN block to denoise, deblur, and enhance low-light images, leading to 83% quality improvement and exceptional clarity.

## CERTIFICATIONS

- **SQL & Database Design A-Z ( MS SQL Server + PostgreSQL )** - Udemy Apr 2022
- **Deep Learning Specialization** – issued by DeepLearning.AI (Neural Networks and Deep Learning, Improving Deep Neural Networks: Hyperparameter tuning, Regularization, and Optimization, Structuring Machine Learning Projects, Convolutional Neural Networks, Sequence Models) Dec 2019

## SCHOLASTIC ACHIEVEMENTS

- Attained finalist status in the prestigious Aerothon 3.0 (Airbus Hackathon). Jun 2021
- Recognized as the top performer in the SkillZ Conclave(a collaborative effort between SmartBridge and IBM). Jul 2019