

# Devi Eswar Kumar Damerla

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## EDUCATION

**University of Cincinnati, College of Engineering and Applied Science** Cincinnati, OH  
*Master of Engineering in Computer Science* Apr 2025

**Sagi Ramakrishnam Raju Engineering College** Bhimavaram, AP, India  
*Bachelor of Technology, Computer Science and Engineering* Jul 2021

## EXPERIENCE

**Software Developer Intern** Nov 2024 – Present  
*AI for ALL LLC* Columbus, OH, United States

- Architecting and developing a full-stack web application from scratch using Angular, ASP.NET Web API, WebGL, and AWS, focusing on scalable design, efficient performance, and seamless user experience.
- Building an intelligent and secure application powered by cutting-edge AI, including LLMs and RAG, to analyze evidence and answer complex queries. Integrated AWS services like S3, DynamoDB, MediaConvert and Transcribe to handle scalable data processing, all while ensuring CJIS compliance in an AWS GovCloud environment.

**Graduate Student Assistant** Feb 2024 – Nov 2024  
*UC Faculty Enrichment Center* Cincinnati, OH, United States

**Associate Software Engineer** Aug 2021 – Jul 2023  
*Airbus* Bengaluru, KA, India

- Improved Aircraft 2D/3D CAD Drawing model loading times by 75% using a microservices-based iPaaS application built with NestJs and Angular, Leveraged AWS load balancing and S3 for optimization.
- Developed a MEAN stack application to reduce reliance on costly CATIA licenses, cutting expenses by 60%, and utilized WebSockets for efficient model loading.
- Implemented SSO via OAuth and built comprehensive API documentation using Swagger. Contributed to Agile/Scrum and SAFe methodologies, involved in all development phases, and managed version control with Git.
- Automated design quality checks, Refactored LAMP applications, and optimized SQL queries under 60 seconds for faster data processing, leading to cost savings.
- Built CI/CD pipelines with Jenkins agent in an AWS ECS Docker container, integrated SonarQube for code quality checks and facilitated smooth data migrations from MariaDB to MySQL for deployment efficiency.

**Freelance Software Developer** Aug 2019 – Jun 2021  
*MCR Web Solutions* Bhimavaram, AP, India

- Developed image enhancement solutions using Java, Spring Boot, and Angular, achieving 83% quality improvement with a CNN architecture for denoising, deblurring, and low-light correction. Built REST APIs, implemented CI/CD pipelines with Jenkins, and utilized AWS Lambda, Docker, and microservices for efficient and scalable processing.

**Machine Learning Engineer Intern** May 2019 – Jul 2019  
*TheSmartBridge Private Limited* Hyderabad, India

- Developed a 95% accurate machine learning model for chronic kidney disease diagnosis using Python, employing techniques such as logistic regression, decision trees, and random forests to enhance model precision. Successfully integrated the model into a user-friendly Django web application.

## PROJECTS

**Context-Driven Image Narration** | *Python, TensorFlow, React, Node.js, MongoDB, AWS* Sep 2023 – Feb 2024

- Led the development of a MERN stack application with a deep learning model achieving 79.7% accuracy in object recognition and caption generation. Built a data pipeline for preprocessing large datasets and improved model performance using transfer learning with pre-trained models.

## TECHNICAL SKILLS

**Languages:** Python, PHP, Java, C, C#, MATLAB, JavaScript, TypeScript, HTML5/CSS, Shell Script  
**Frameworks:** Angular, ASP.NET, React, Spring Boot, Django, NestJS, ExpressJS, Node.js, Vue.js, Tailwind CSS  
**Databases:** SQL(MySQL, SQLServer, Postgres, MariaDB), NoSQL(MongoDB, Redis)  
**Server and Cloud Infrastructure:** Jenkins, Apache Tomcat, IIS, AWS, OpenShift, Docker  
**Machine Learning Libraries:** Pandas, NumPy, Matplotlib, TensorFlow, Keras, Scikit-Learn, OpenCV, XGBoost  
**Version Control and Agile Tools:** Git, svn, JIRA, VersionOne