

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

Nov 2024 – Present

AI for ALL LLC

Columbus, OH, United States

- Architected and built a gamified web application using Angular and .NET to teach AI tools through interactive Unity WebGL games, hosted on AWS S3 and delivered via CloudFront.
- Led the design and development of an AI-powered, secure investigation tool using Angular and FastAPI, enabling investigators to efficiently analyze evidence (video, audio, etc.) and reducing evidence review time by 70%.
- Containerized the BERT-based AI model using Docker, deployed to AWS ECR, and hosted inference endpoints on SageMaker, achieving 100% 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 Group

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 Naive Bayes, decision trees, and random forest 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, Java, C#, PHP, JavaScript, TypeScript, HTML5/CSS, Shell Script

Frameworks: Angular, FastAPI, Node.js, ASP.NET, React, Spring, Django, NestJS, ExpressJS, Vue.js, Tailwind CSS

Databases: SQL(MySQL, SQLServer, Postgres, MariaDB), NoSQL(MongoDB, DynamoDB, Redis)

Server and Cloud Infrastructure: AWS, Docker, Jenkins, Apache Tomcat, IIS, OpenShift

Machine Learning Libraries: Pandas, NumPy, Matplotlib, TensorFlow, Keras, Scikit-Learn, OpenCV, PyTorch

Version Control and Agile Tools: Git, svn, JIRA, VersionOne