

Devi Eswar Kumar Damerla

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EDUCATION

University of Cincinnati, College of Engineering and Applied Science <i>Master of Engineering in Computer Science</i>	Cincinnati, OH <i>Apr 2025</i>
Sagi Ramakrishnam Raju Engineering College <i>Bachelor of Technology, Computer Science and Engineering</i>	Bhimavaram, AP, India <i>Jul 2021</i>

EXPERIENCE

Software Developer <i>AI for ALL LLC (AI OWL)</i>	Nov 2024 – Present <i>Columbus, OH, United States</i>
<ul style="list-style-type: none">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 <i>UC Faculty Enrichment Center</i>	Feb 2024 – Nov 2024 <i>Cincinnati, OH, United States</i>
Associate Software Engineer <i>Airbus Group</i>	Aug 2021 – Jul 2023 <i>Bengaluru, KA, India</i>
<ul style="list-style-type: none">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 <i>MCR Web Solutions</i>	Aug 2019 – Jun 2021 <i>Bhimavaram, AP, India</i>
<ul style="list-style-type: none">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 <i>TheSmartBridge Private Limited</i>	May 2019 – Jul 2019 <i>Hyderabad, India</i>
<ul style="list-style-type: none">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 <i>Python, TensorFlow, React, Node.js, MongoDB, AWS</i>	Sep 2023 – Feb 2024
<ul style="list-style-type: none">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