Devi Eswar Kumar Damerla

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EXPERIENCE

Software Developer Internship
MediTechSafe Inc

May 2025 – Aug 2025
West Chester, OH, United States

- Developing a secure product development platform supporting system architecture modeling, component-level assessments, attack scenario simulation, and incident response planning built with Angular, Go, and PostgreSQL.
- Engineering full-stack solutions and RESTful APIs to manage vulnerability tracking, remediation workflows, and compliance mapping based on cybersecurity frameworks, improving product security governance.
- Building a standardized risk management platform applying Go, AI/ML, and full-stack frameworks (Node.js, React, Python) to enable real-time monitoring of cyber-physical systems and secure cloud deployments for IoT data analytics.

Software Developer
AI for ALL LLC (AI OWL)

Nov 2024 – Present
Columbus, OH, United States

- Architected and deployed a gamified AI education platform using Angular and .NET, embedding interactive Unity WebGL games hosted on AWS S3 and delivered via CloudFront, improving AI tool onboarding for non-technical users and students.
- Designed and led development of an AI-powered investigation platform using Angular and FastAPI, enabling secure multimedia evidence analysis (video, audio, documents) and reducing manual review time by 70% through intelligent automation.
- Engineered a modular Dockerized pipeline to process diverse evidence types by chunking converting video and audio using FFmpeg, transcribing audio via AWS Transcribe, and chunking all content for semantic embedding. Leveraged multipart upload and streaming to handle large files efficiently, reducing media upload and processing time by over 60%.
- Built and deployed a CJIS-compliant Legal-BERT embedding and RAG inference system using Docker, AWS ECR, and SageMaker, enabling semantic search and contextual QA over evidence data; integrated WebSocket-based real-time progress tracking to improve transparency during long-running media processing.

Associate Software Engineer
Airbus Group

Aug 2021 – Jul 2023
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
MCR Web Solutions

Aug 2019 – Jun 2021
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
TheSmartBridge Private Limited

May 2019 – Jul 2019
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.

EDUCATION

University of Cincinnati, College of Engineering and Applied Science
Master of Engineering in Computer Science

Cincinnati, OH
Apr 2025

Sagi Ramakrishnam Raju Engineering College
Bachelor of Technology in Computer Science and Engineering

Bhimavaram, India
Jul 2021

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, JavaScript, TypeScript, Java, Go, C#, PHP, HTML5/CSS, Shell Script
Frameworks: Angular, FastAPI, Node.js, ASP.NET, React, Spring, Django, NestJS, Express.JS, 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, Linux, Unix
Machine Learning Libraries: Pandas, NumPy, Keras, Scikit-Learn, FFmpeg, OpenCV, PyTorch, Transformers
Version Control and Agile Tools: Git, JIRA, Clickup, VersionOne

Certifications

Deep Learning Specialization by DeepLearning.AI
Certified Solutions Architect – Associate by AWS