# Devarapu Akhil

GitHub    LinkedIn

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Portfolio: akhil-devarapu-portfolio

## Professional Summary

Full-stack developer skilled in the MERN stack, backend development, and AI integrations. Proven track record of delivering scalable applications and optimizing code for performance and security. Passionate about leveraging machine learning and modern web technologies to solve complex challenges. Strong collaborator and mentor with excellent communication skills.

## Experience

**Software Developer and Instructor at NxtWave**                    Mar 2025 – Present

- Led multiple MERN-stack projects, developing scalable web applications for diverse business requirements.
- Mentored junior developers, enhancing team code quality and fostering a culture of continuous learning.
- Integrated AI tools (n8n, OpenAI) into client solutions, reducing manual processes by up to 40%.
- Collaborated with stakeholders to gather requirements, design architectures, and deploy robust solutions.

## Projects

**Traffic Sign Detection**                                                            GitHub

- Built a deep learning system using Convolutional Neural Networks (CNNs) to detect and classify road signs, enhancing recognition accuracy for autonomous vehicles.
- Implemented TensorFlow/Keras models with data augmentation techniques to handle diverse image conditions.

**AI Personal Lawyer Agent with n8n**                                                 GitHub

- Developed an AI-driven legal assistant leveraging n8n workflows and OpenAI APIs to classify and analyze legal documents.
- Reduced legal document review time by automating classification and content extraction processes.

**Hotel Management Backend**                                                          GitHub

- Engineered RESTful APIs for hotel operations, managing bookings, inventory, and guest data.
- Used Node.js, Express.js, and SQLite to deliver high performance and a modular codebase.

**Real Estate Platform Backend**                                                      GitHub

- Designed backend services for property listings, seller dashboards, and analytics in a real estate platform.
- Developed secure APIs and optimized database queries to improve system performance and scalability.

**BigBasket - Online Grocery Shopping Backend**

- Developed backend systems for managing products, user authentication, and order processing for an online grocery platform.

- Delivered efficient data storage and retrieval using SQLite for faster performance.

# Publications

**Predicting Salary of an Employee Using Machine Learning** Apr 2024

- Developed machine learning models to predict fair and competitive salaries for newly hired employees.

- Applied regression algorithms and statistical validation to ensure high prediction accuracy.

- Created a user-friendly Streamlit interface for HR professionals and job seekers.

View Document: [Publication](#)

# Education

**B.Tech in Information Technology**
Vasireddy Venkatadri Institute of Technology, India
2020 – 2024

**12th Board of Intermediate**
Sri Chaitanya Junior College, India
2018 – 2020

# Skills

**Programming:** JavaScript, Python, Java, C++, Data Structures with C++

**Web Technologies:** HTML, CSS, React.js, Node.js, Express.js

**Databases:** MongoDB, MySQL, SQLite

**Tools:** Git, GitHub, Postman, VS Code, Jupyter, n8n

**Concepts:** REST APIs, JWT, MVC, Deep Learning (CNNs), Data Structures, OpenAI APIs

**Other Skills:** MERN Stack, Web Development, Database Design, Version Control, Communication, Team Leadership, AI/ML Fundamentals, Blockchain, Cloud Computing, DevOps