Devarapu Akhil

[GitHub](#)   [LinkedIn](#)

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Portfolio: [akhil-devarapu-portfolio-site.lovable.app](#)

Professional Summary

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

Experience

Software Developer and Instructor   Mar 2025 – Present

- Led multiple MERN-stack projects, developing scalable web applications for diverse business needs.

- Mentored junior developers, improving team code quality and knowledge-sharing culture.

- Integrated AI tools (n8n, OpenAI) into client solutions, reducing manual processes by up to 40%.

- Collaborated closely with stakeholders to gather requirements, design architectures, and deploy solutions.

Projects

Traffic Sign Detection   [GitHub](#)

- Built a deep learning system using CNNs to detect and classify road signs, improving recognition accuracy for autonomous vehicles.

- Implemented TensorFlow/Keras models with data augmentation to handle diverse image conditions.

AI Personal Lawyer Agent with n8n   [GitHub](#)

- Created an AI-driven legal assistant with 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 ensure high performance and modularity.

Real Estate Platform Backend   [GitHub](#)

- Developed backend services for property listings, dashboards, and analytics for a real estate platform.

- Designed secure APIs and optimized database interactions to enhance system performance.

BigBasket - Online Grocery Shopping Backend   [GitHub](#)

- Built backend for product management, user authentication, and order processing for an online grocery platform.

- Delivered efficient SQLite-based storage solutions for fast query performance.

Publications

Predicting Salary of an Employee using ML Apr 2024

- Developed machine learning models to predict fair salaries, improving HR decision-making processes.

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

- Deployed user interface using Streamlit for HR professionals and job seekers.

View Document: Drive Link

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++
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 (CNN), OpenAI APIs
Other Skills: MERN Stack, Web Development, Database Design, Version Control, Communication, Team Leadership, AI/ML Fundamentals, Blockchain, Cloud Computing, DevOps,DSA(c++).