

Vivek Gaddam

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SUMMARY

Full-stack Developer with 3+ years of experience in React.js, Java, and Drupal, proficient in AWS, CI/CD, and Docker. Developed 4+ scalable, secure web apps reducing load time by 50% and automated CI/CD pipelines, cutting rollback rates by 60%. Delivered AI/ML and IoT solutions improving system accuracy by up to 90%.

EXPERIENCE

Software Developer for WebNY <i>New York State Office of Information Technology Services</i> <ul style="list-style-type: none">Developed and maintained 10+ secure, WCAG-compliant Drupal websites using PHP, JavaScript, and Bootstrap.Optimized 50+ modules with custom hooks and caching, reducing vulnerabilities by 70%.Enhanced frontend UX with responsive Twig layouts and mega menus; performed code and visual reviews to ensure accessibility, consistency, and halved page load time.Automated CI/CD via Jenkins and Docker on Acquia, decreasing rollback rates by 60%.	May 2024 – Present Albany, NY
Founder & CEO <i>EFORGE NexGen Innovations Pvt. Ltd.</i> <ul style="list-style-type: none">Engineered AI/IoT solutions with Python, Firebase, and AWS, reducing decision latency by 35%.Created full-stack Android Studio apps with real-time analytics, improving client ops by 40%.Constructed scalable data infrastructure using cloud-based services (AWS, Azure) for processing large volumes of data, shortening report generation time by 40% and improving data accessibility.	March 2022 – April 2023 Hyderabad, India
Research Intern <i>NewGen Innovation Center, CVR College of Engineering</i> <ul style="list-style-type: none">Configured ML models for smart irrigation, increasing water efficiency by 25%.Published 3 papers and filed 3 patents on smart agriculture and urbanization prediction.“Machine Learning Perspective to Foster Accuracy & Prediction of Urbanization using Automatic Weather Station” - philstat.org/1451“Smart Precision Agriculture using IoT Data Analytics” - philstat.org/1450	January 2021 – March 2022 Hyderabad, India

PROJECTS

PlanVoyage – Destination Recommendation Web App <ul style="list-style-type: none">Developed a full-stack travel recommendation app using Next.js, Express.js, MongoDB, and Tailwind CSS with optimized API queries and indexed search, reducing latency by 40%.Implemented a personalized engine with JWT-based user identity and access system with RBAC and session control for personalized recommendation engine, category-based filtering, and responsive UI, boosting engagement by 45%, deployed on Vercel.
AI based Smart Interview Preparation App (PrepSmart) <ul style="list-style-type: none">Pioneered a React.js interview platform with OpenAI-driven feedback, using TypeScript and CSS, evaluating spoken and coded responses, resulting in 80% positive user feedback and a 60% completion rate.Integrated JWT-based RBAC, WebSocket-enabled live interviews, and AWS-hosted backend with CI/CD pipelines, ensuring 95% uptime and 70% boost in data privacy.
E-Commerce Application <ul style="list-style-type: none">Engineered a secure Express.js and MongoDB backend with JWT and OAuth2-based identity management, access control layers, and encrypted session storage for 1,000+ concurrent usersDeployed 15+ microservices in Azure Kubernetes with Docker, Terraform-based CI/CD, and Caddy reverse proxy; implemented automated testing and Azure Blob Storage for media delivery.
Smart Precision Farming Using IoT Data Analytics <ul style="list-style-type: none">Designed an AI-powered precision farming system using Python and Scikit-learn to predict optimal crop resource allocation with 90% accuracy, reducing waste by 15%.Performed EDA with Pandas/Matplotlib to identify agro-patterns and trained Machine Learning models on IoT sensor data, improving irrigation automation accuracy by 30%.

EDUCATION

University At Albany, State University of New York <i>Master of Science in Computer Science</i>	August 2023 - May 2025 Albany, NY
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SKILLS

Languages & Frameworks: Java, Python, JavaScript, TypeScript, React.js, Node.js, Next.js, Spring Boot, .NET, Drupal, Twig, Tailwind, Bootstrap
Cloud & DevOps: AWS (EC2, S3, Lambda), Docker, Kubernetes, Jenkins, Terraform, Git, GitHub Actions, Azure (AKS, Blob)
Databases & APIs: PostgreSQL, MongoDB, DynamoDB, MySQL, RESTful APIs, RBAC, JWT
Tools & Practices: VS Code, JIRA, JUnit, Selenium, Agile, CI/CD, WCAG

CERTIFICATIONS

AWS Certified Developer – Associate – Amazon Web Services Certificate
Software Engineering Job Simulation – JPMorgan Chase & Co. Certificate
Web Developer Certificate – UDEMY Certificate
Java, Python, JavaScript Programming – HackerRank Certificate
Database Programming with SQL – Oracle Certificate