

LOKESHREDDY DARUKUMALLI

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SUMMARY

Over 4+ years of experience as a Full Stack Developer, specializing in scalable web applications, microservices, and cloud-based architecture. Proficient in technologies such as React.js, Vue.js, Node.js, and Java, with a strong foundation in data structures, algorithms, and distributed systems. Experienced in database management, cloud computing, and DevOps practices. Passionate about building high-performance, efficient applications that drive real-world impact.

EDUCATION

University of Southern Mississippi

Master of Science in Computer Science (GPA: 3.9 out of 4.0)

Expected: May 2025 | Hattiesburg, MS

Relevant Coursework: Advanced Algorithms, Cloud Computing, Machine Learning, Software Design, Web Development, Database Management, Distributed Systems, Microservices Architecture, Machine Learning Algorithms, Deep Learning, Artificial Intelligence

Bapatla Engineering College

Bachelor's in Information Technology (CGPA: 9.2 out of 10.0)

Graduated: April 2023 | Bapatla, India

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Web Development, Database Management, Computer Networks

TECHNICAL SKILLS

- **Languages:** Python, JavaScript (ES6+), TypeScript, Java, C, C++, SQL, Ruby (basic), Shell Scripting
- **Front-End:** React.js, Next.js, Vue.js, Angular 2+, Redux, HTML5, CSS3, SCSS, Bootstrap, TailwindCSS, Material-UI, Styled Components, Webpack, Babel
- **Back-End:** Node.js, Express.js, Spring Boot, Ruby on Rails (basic), Django, Flask, FastAPI, RESTful & GraphQL APIs, Microservices Architecture, Serverless Computing
- **Databases:** MySQL, PostgreSQL, MongoDB, Microsoft SQL Server, Oracle, Firebase Firestore, DynamoDB, Redis, Cassandra
- **AI/ML/DL Models:** SVM, Random Forest, Naïve Bayes, K-NN, CNN, MTCNN, FaceNet, ResNet, MobileNet, VGG16
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, ECS, SQS, DynamoDB, API Gateway, CloudFront, IAM, RDS), Azure (App Services, VM, SQL Server, Functions, Blob Storage), Google Cloud Platform (GCP), Docker, Kubernetes, Terraform, CI/CD (Jenkins, GitHub Actions, GitLab CI/CD, CircleCI), Nginx, Apache
- **Testing & Debugging:** Jest, Mocha, Selenium, JUnit, Postman,
- **Tools & Methodologies:** Git, GitHub, GitLab, Bitbucket, JIRA, Confluence, Agile (Scrum & Kanban), System Design, Load Balancing, Caching Strategies, Elasticsearch, RabbitMQ, Kafka, OAuth, JWT, WebSockets
- **Other Relevant Skills:** Design Patterns, MVC Architecture, API Development & Integration, Performance Optimization, Code Review, Responsive Web Design

CERTIFICATIONS

- JavaScript Algorithms and Data Structures – freeCodeCamp
- Python Programming – Microsoft
- Responsive Web Design – freeCodeCamp
- Problem-Solving Challenge – HackerRank
- Web Design with React – University of Southern Mississippi

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EXPERIENCE

Software Developer Intern

Tourslog | Remote | Aug 2022 – Feb 2023

- Designed and developed a scalable, responsive web application for seamless user authentication (React.js, Vue.js, AWS).
- Built an admin panel to efficiently manage user data with secure password recovery and role-based access control.
- Integrated RESTful APIs and optimized backend logic using Spring Boot and PostgreSQL, improving performance by 30%.
- Ensured cross-browser compatibility and optimized UI performance, reducing page load times by 25%.

Research Assistant

University of southern Mississippi | Aug 2024 - Jan 2025

- Assisted faculty with lectures, graded assignments, and provided one-on-one tutoring for data structures, algorithms, and software engineering courses.
- Mentored students in system design and scalable architecture principles, improving coding efficiency in real-world applications.

PROJECTS

Ramie Crop Disease Monitoring (NSF-Funded Project)

AI, Machine Learning | Nov 2023 – Present

- Developed and trained ML and DL models for plant disease detection using CNNs, VGG16, and ResNet50, achieving 92% classification accuracy.
- Processed and analysed 2,310+ images to optimize disease classification using TensorFlow and PyTorch.
- Designed a scalable cloud-based architecture using AWS Lambda and S3 for efficient inference and deployment.

Face Recognition-Based Attendance System

Vue.js, FaceNet, MTCNN, AWS Lambda | Sep 2023 – Dec 2023

- Developed a real-time, AI-powered attendance tracking system using facial recognition with FaceNet and MTCNN.
- Designed a microservices-based backend with AWS Lambda and DynamoDB for scalable data processing.
- Reduced attendance verification time by 50% through optimized image processing techniques.

College Technical Fest Organizer

Vue.js, JavaScript, Bootstrap, MySQL, NoSQL | Sep 2022 – Apr 2023

- Developed a web application providing complete event details, including sponsors, guests, and registration portal for participants, volunteers, and coordinators.
- Implemented an admin panel to filter registrations by department and event, with data export functionality to Excel.
- Designed and built an Online Quiz Portal within the system for students to participate.