DARSHAN KIRAN UGALE

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Education

Master of Science in Computer Science Aug 2024 - May 2026
Indiana University, Bloomington
Coursework *Software Engineering, Applied Algorithms, Computer Networks*
Bachelor of Engineering in Computer Engineering Aug 2021 - Jul 2024
KBT College of Engineering - SPPU

Technical Skills

Languages: Java, Python, C++, Kotlin, SQL, JavaScript, HTML, CSS, Dart, PHP
Frameworks: React.js, React Native, Angular.js, Node.js, Express.js, WordPress, Django, Flask, MVC
Developer Tools: Docker, Figma, VS Code, Android Studio, Flutter, Leaflet.js, Git, Google Maps API
Libraries: Chart.js, Pandas, NumPy, Matplotlib, Scikit-learn, OpenCV, Keras, TensorFlow
Databases: MySQL, NoSQL, MongoDB, Firebase

Experience

Software Engineering Intern | React Native, DSP, Audio Processing, Figma Oct 2025 - Dec 2025
PetsAloud *Glastonbury, CT (Remote)*

- Developed interactive, DSP-driven audio-responsive features for a React Native animation app, improving real-time synchronization between sound inputs and visual motion across iOS and Android.
- Built and optimized scalable UI components with clean state management, enhancing modularity, maintainability, and cross-screen performance.
- Partnered with design and research teams to convert Figma prototypes into dynamic, production-ready interfaces that visualize musical motion using DSP-based animation logic.

Web Development Consultant | Javascript, UI/UX, AWS, Mapbox, Airtable, Make Jun 2025 - Aug 2025
Retrocycle *Centennial, CO*

- Engineered an interactive café map system using Mapbox, Airtable, Make.com, and AWS with real-time geocoding, JSON updates, and a dynamic filterable sidebar for seamless navigation.
- Automated backend workflows using AWS Lambda + API Gateway, enabling zero-downtime data synchronization and eliminating manual intervention while improving platform scalability.
- Designed responsive UI layouts and built a custom Impact Calculator, enhancing accessibility and delivering interactive environmental and financial insights to users.

Software Developer Intern | React.js, Node.js, MySQL, JavaScript, CSS, Figma Feb 2023 - Aug 2023
Castle Advanced Technologies and Systems pvt ltd. (CATS-GLOBAL) *Nashik, India*

- Led a real-time Asset Management project, designing responsive Figma-based interfaces and developing a full-stack web application that streamlined asset tracking and improved user experience.
- Executed in-depth debugging, SQL optimization, and risk analysis for new features, identifying two major vulnerabilities and preventing production downtime before launch.
- Improved website performance by fixing critical bottlenecks, reducing page load time from 5s to 3.5s, and contributing to increased monthly active users.

Projects

Inter Departmental Supply Chain Management | *HTML,CSS,JavaScript,Microsoft-PowerBI,Python*

- Built a centralized dashboard for eight departments, enabling real-time metric updates and improving organizational workflow visibility.
- Developed an interactive analytics tool that delivered real-time insights with 90% timeline prediction accuracy to support leadership decision-making.

Zwitter: A Social Media Platform | *MERN, AWS Amplify, Linode Linux Server*

- Developed a full-stack MERN platform supporting 500+ users with zero-latency peak traffic through optimized backend and UI flows.
- Implemented authentication, posting, and friend management features and deployed the app using AWS Amplify + Linode, ensuring scalability and fast responsiveness.

Face Emotion Detection | *HTML, CSS, JavaScript, MySQL, Flask, ReactJs, Python*

- Developed a facial emotion detection system using Python, Flask, and deep learning; achieved 45% accuracy and optimized system performance by 20%. Analyzed 500+ facial expression samples, improving predictive models and increasing user engagement during testing.
- Built a real-time facial expression analysis app with React.js and Flask, enhancing data processing speed by 30% while maintaining high accuracy through an efficient full-stack architecture.