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

Web Development Consultant | Javascript, UI/UX, AWS, Mapbox, Airtable, Make — Jun 2025 - Aug 2025
Retrocycle — *Colorado, USA*

* Engineered an interactive café map system using Mapbox, Airtable, Make.com, and AWS with real-time geocoding, JSON updates, and a dynamic sidebar with filters/search for seamless navigation.
* Automated backend workflows through AWS Lambda + API Gateway, enabling zero-downtime data synchronization, eliminating manual intervention, and improving scalability across the platform.
* Collaborated on UI/UX design, creating responsive layouts, improving accessibility, and aligning all web features with Retrocycle's brand guidelines to enhance user engagement.
* Designed and deployed a custom Impact Calculator on Retrocycle's web platform, providing users with interactive insights into environmental and financial impact.

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 front-end interfaces in Figma and developing a web application, which enhanced user experience and streamlined asset tracking processes for the company. Implemented SQL queries for structured data storage and optimized database performance for faster retrieval.
* Conducted thorough debugging and code reviews to identify potential risks associated with new features, presenting strategic insights during board meetings; this initiative minimized downtime occurrences by eliminating two major vulnerabilities from production systems before launch.
* Performed extensive debugging and performance optimization on the company's website, identifying and rectifying flaws that improved page load times from 5 seconds to 3.5 seconds and increased monthly active users.

PROJECTS

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

* Established a centralized dashboard enabling over eight departments to input real-time metrics continuously, which streamlined workflows and improved visibility into project statuses across the organization.
* Developed an interactive data visualization and analytics tool delivering real-time insights for departmental leaders, enhancing project timeline predictions with a 90% accuracy rate while seamlessly supporting key decision-making processes across teams.

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

* Spearheaded full stack development for Zwitter within the MERN framework, enhancing system performance for an estimated 500 users with no latency during peak traffic.
* Implemented robust user authentication, seamless registration, post creation, and efficient friend management to support a smooth user experience.
* Deployed the frontend on AWS Amplify for a responsive UI and hosted the backend on a Linode Linux server, ensuring optimal performance and scalability.

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.