

YASH BHAWARKAR

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PROFESSIONAL SUMMARY

Experienced software engineer with **3+ years** in backend development, AI/ML integration, and Cloud-native systems, passionate about applying computing to real-world challenges.

Competencies	NodeJS, Firebase, Cloud Computing (GCP/ AWS/ Azure), Machine Learning, Generative AI, Salesforce, Git, Vertex AI, Computer Vision
Languages	Python, JavaScript, SQL
Certifications	<ul style="list-style-type: none">Google Cloud Certified Associate Cloud EngineerAI-102: Azure AI Engineer Associate, DP-100: Azure Data Scientist Associate, DP-203: Azure Data Engineer, AI-900: Azure AI Fundamentals, AZ-900: Azure FundamentalsAWS Certified Solutions Architect Associate, AWS Certified Developer Associate, AWS Certified Cloud PractitionerSalesforce Certified Associate, MongoDB SI Associate CertificationGitHub Foundation Certification, Scrum Foundation Professional Certificate SFPC™

PROFESSIONAL EXPERIENCE

Software Developer | Tata Consultancy Services | Nagpur, IN

June 2022 – July 2025

- Pioneered a mobile app backend, utilizing technologies like Express.js, Node.js, Firebase, MongoDB, and Google Cloud Platform (GCP) services. Through scalable solutions, this initiative boosted user engagement by 30%.
- Led cross-platform development initiatives, utilizing a diverse tech stack including HTML, CSS, JavaScript, MongoDB, MySQL, Firebase, Git, and Python, resulting in a remarkable 40% scalability enhancement.
- Streamlined the entire serverless architecture, REST APIs, and various service automation processes, significantly increasing reliability by 50% and effectively reducing manual tasks by 70%.
- Efficiently facilitated frontend integration with comprehensive, well-documented APIs, greatly improving the overall user experience and enhancing app functionality significantly.
- Engineered advanced automated triggers, significantly heightening operational efficiency by 60% and fostering a notable 20% rise in user adoption rates.
- Implemented AI-driven personalized recommendations using Vertex AI, driving greater environmental awareness and significantly boosting community engagement efforts.
- Proactively developed innovative social features for seamless content sharing, cultivating a strong community-driven approach to environmental conservation initiatives.

EDUCATION

Master of Science in Computer Science

August 2025 – May 2027(Expected)

Michigan State University

East Lansing, Michigan

Bachelor of Engineering in Computer Engineering (GPA:4.00)

August 2018 – May 2022

Dr. D Y Patil's Ramrao Adik Institute of Technology

Navi Mumbai, India

PROJECTS

TCS CIRCLE4LIFE | Tata Consultancy Services

October 2022 - Present

- Engineered a robust backend for a mobile app delivering personalized Sustainability Development Goals and Carbon Footprint Reduction solutions, employing Node.js, Express.js, Firebase, and Google Cloud Platform (GCP).
- Leveraged Vertex AI and machine learning models to provide AI-driven insights, analyzing commute and lifestyle patterns to deliver personalized sustainability tips and promote data-informed environmental decisions.

TCS CLICKFIT | Tata Consultancy Services

- Orchestrated the backend development for an Employee Fitness Engagement app, incorporating Cloud Vision API, Cloud Functions, and Firestore on Google Cloud Platform (GCP), to boost user involvement and promote health.
- Integrated ML-based activity classification to analyze fitness patterns and deliver adaptive health recommendations, supporting a wellness-driven culture.

Diabetic Retinopathy Detection from Fundus Images Using Multi-Tasking Model with EfficientNet B5 (Presented at International Conference on Automation, Computing and Communication 2022 (ICACC-2022))

- Constructed a reliable system for Diabetic Retinopathy detection using deep neural networks, utilizing the EfficientNet B5 architecture for precise and effective diagnosis, aiding progress in medical imaging.
- Showcased research outcomes at the International Conference on Automation, Computing and Communication 2022, illustrating the significant role of AI in healthcare.