

# PRAKASH KUMAR

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Bengaluru, Karnataka - 560037, India

## PROFESSIONAL SUMMARY

Backend Developer and Full-Stack Engineer with experience in building scalable web applications and SaaS systems using the MERN/MEAN stacks. Proficient in CI/CD automation, DevOps practices, and cloud platforms including AWS, GCP, and Firebase. Hands-on with real-time systems, API development, Redis caching, and security integrations. Deep interest in AI/ML applications with project experience in OpenCV, YOLO, PyTorch, and OpenAI GPT models.

## EXPERIENCE

### • Accenture

*Packaged App Development Associate (Apr 2024 – Present)*

Bengaluru, India

- Trained in MEAN stack development through Accenture's internal training program, building strong foundations in Angular, Node.js, Express, and MongoDB.
- Assigned as an Adobe Magento Developer; contributed to resolving over 50+ user stories and bug fixes across multiple production websites.
- Wrote and executed unit tests using PHPUnit and Jasmine, enhancing code reliability and reducing post-deployment bugs by 20%.
- Participated in automation testing efforts, scripting reusable test cases to streamline quality assurance pipelines.
- Independently developed and deployed a sports venue booking platform using Angular and Firebase as part of a self-initiated learning application, demonstrating full-stack capability and cloud integration skills.

## EDUCATION

### • Visvesvaraya Technological University

*B.E. Computer Science and Engineering (July 2019 – June 2023)*

Bengaluru, India

CGPA: 8.71/10.00

## PROJECTS

### • BLOGSAGE: Online Blogging Platform

*Sept 2024 – Present*

 [blogsage.in](#)

- Tools: MERN Stack, Firebase, Redis, Docker, Jenkins, Nginx, GitHub Actions, Let's Encrypt, Google OAuth
- Developed a full-stack blogging platform using the MERN stack, featuring a rich text editor, user authentication, and a real-time comment system.
  - Implemented CI/CD pipelines using Docker and Jenkins to automate deployment on a self-hosted Ubuntu server with Nginx reverse proxy and SSL encryption.
  - Integrated Firebase for email-based OTP verification and Google OAuth to enhance secure and user-friendly authentication.
  - Leveraged Redis for caching and asynchronous email queueing, significantly improving response times and system performance.

### • SMART GLASSES: AI-Powered Assistive Wearable

*Oct 2022 – March 2023*

 [GitHub](#)

- Tech Stack: Python, PyTorch, OpenCV, YOLO, MediaPipe, NumPy, Torch, OpenAI GPT API
- Developed an AI-powered wearable device that supports object detection, gesture control, and real-time voice queries using OpenCV and OpenAI's GPT API.
  - Designed intuitive gesture-based interfaces (e.g., virtual keyboard, volume control) using MediaPipe and OpenCV.
  - Implemented a game-playing AI using an AlphaZero-inspired Monte Carlo Tree Search algorithm for Connect Four and Tic-Tac-Toe.
  - Integrated YOLO for real-time scene understanding to assist visually impaired users in navigating their environment.

## SKILLS

- Programming Languages:** Python, JavaScript, C/C++, Java
- Web Technologies:** MEAN Stack, MERN Stack, HTML5, CSS3, REST APIs
- Database Systems:** MySQL, MongoDB, Firebase Realtime Database & Firestore
- Cloud Technologies:** Amazon Web Services (EC2, S3), Google Cloud Platform (App Engine, Firebase)
- DevOps & Version Control:** Git, Jenkins, Docker, Nginx, Redis