Nirmal Khedkar

Fortress Code Lightning Fast | Fullstack SWE | 2 YoE

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EDUCATION

University of Colorado Boulder, Boulder CO
Master of Science - Computer Science

Aug 2024 - June 2026
(Ongoing)

National Institute of Technology Karnataka, India
Bachelor of Technology - Information Technology

July 2018 – Aug 2022

TECHNICAL SKILLS

Languages	Java, JavaScript, MySQL, MongoDB, C/C++, Python, GraphQL
Frameworks	SpringBoot, Mockito, Project Reactor, Android, Typescript, React Native, Gatsby, Rails, NextJS, NestJS, R2DBC, WebVR, ReactJS, Mongo, NodeJS, ExpressJS, Angular
Tools	Google Cloud, Jenkins CI, Kubernetes, Prometheus, Tableau, Sentry, Linux, Gen AI

PROFESSIONAL EXPERIENCE

Visa Inc
Software Engineer

June 2022 – July 2024 (2Y 1M)
Bengaluru

- Migrated Springboot services to a non-blocking Reactor architecture, resulting in a 30% improvement in performance and reduction in latency.
- Executed comprehensive security, testing, and deployment processes to ensure seamless release of said components in internal and production environments.
- Proactively identified and resolved unpredictable client and production errors, ensuring system stability and maintaining a 99.9999% uptime SLA.
- Implemented robust test coverage practices and end-to-end Jenkins pipelines, leading to improved engineering practices within the team and a 45% reduction in development time.

Visa Inc
Software Engineering Intern

May 2021 – July 2021 (3M)
Bengaluru

- Analyzed various data points within the Visa Developer Platform to identify key trends in route, API, product, and client usage.
- Developed a unified backend service and frontend portal to aggregate, visualize, and analyze diverse data sets, enabling efficient querying and insights.
- Implemented a data-driven approach to optimize system performance through dynamic throttling and load prediction, leading to a 15% improvement in overall efficiency.

Twizzr.com
Tech Lead (Part-time)

Oct 2019 – May 2022 (2Y 7M)
Remote

- Conducted comprehensive business analysis, designed scalable systems, and refactored code using agile methodologies to optimize performance and future compatibility.
- Implemented linters, automated version bumps and CI-CD pipelines for enhanced development experience and code quality.
- Introduced customer engagement tools like chatbots and analytics for proactive error resolution and insights into customer experience.

RELEVANT CERTIFICATION

GCP Big Data and ML Fundamentals Google Cloud - Coursera
Prompt Engineering - How to talk to the AIs - LinkedIn
Learning the OWASP Top 10 - LinkedIn Learning
AI Pair Programming with GitHub Copilot - LinkedIn Learning
GCP Fundamentals - Core Infrastructure - Coursera
Full Stack Web Development - Coursera

PROJECTS

AR Visualization of Human Anatomy   WebVR, JavaScript
- Developed an augmented reality-based human anatomy learning system using human-computer interaction principles and conducted user testing to evaluate effectiveness, identify areas for improvement, and assess user interaction.

Farm-fresh E-Commerce Portal   MERN, JavaScript
- Developed a full-stack e-commerce platform for direct-to-consumer farm produce, incorporating robust authentication, authorization, and tracking systems.

Driver Attentiveness Detection   Image Analysis, Computer Vision
- Developed a safety tool using advanced computer vision algorithms to detect driver drowsiness by analyzing facial expressions and body position in dash-cam footage, helping prevent road accidents.

CollegeGO   Android, Java
- Developed a comprehensive university class and examination scheduling app featuring advanced notification and alert systems..

MissionControl
- Designed and developed a personal secure backend server to process smartphone and smartwatch data, employing scheduling algorithms to generate valuable insights and information..

HONORS AND AWARDS

Vehicle Re-identification Using Convolutional Neural Network   Jan 2023
Research Paper - ICADCML 2023
Using convolutional neural networks with vision-based techniques to accurately identify vehicles across multiple cameras without being dependent on their number plates.

NIT Conclave 2019   Hackathon
2nd Position for College
Participated in the hackathon team, developing a full-stack social network platform tailored to connect researchers and facilitate collaboration.

EXTRACURRICULARS

Integrated Resources and Information Technology (IRIS), NITK   July 2019 - May 2022
Frontend Advisor and Web Developer   NITK Surathkal
- Contributed to design upgrades, feature enhancements and supporting production fixes.
- Worked on improving Admission Modules and major design improvements for CEMS, CDC, and Profile Module.

The Institute of Engineering & Technology, NITK   May 2020 - May 2022
Webmaster, Computer Science Lead   NITK Surathkal
- Redesigned IET NITK website from scratch to detail activities done by the group.
- Integrated this website to a content management system, simplifying web content maintenance.
- Streamlined several manual, unorganized processes onto the website, increasing group participation.