MISHAL K R

Full Stack Developer | Backend Developer | Frontend Developer | MERN & Next.js Stack | Software Engineer

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🪪 PROFESSIONAL SUMMARY

Software Engineer with 1 year and 3 months of experience as an Assistant Professor and Software Engineer. Currently transitioning into full-time backend and full-stack development through intensive cohort-based training. Proficient in MERN stack, Java, Python, and database systems. Passionate about problem-solving, backend development, and building scalable web applications.

💼 WORK EXPERIENCE

Freelance Software Developer
Self-Employed

January 2025 – present | Remote
- Worked on full-stack apps using MERN stack, focusing on API development, user auth (JWT), and MongoDB schema design.
- Designed responsive UIs with React, Tailwind CSS.
- Used Postman for API testing and followed MVC architecture.
- Note: Freelance projects were taken for learning and upskilling purposes, not tied to public clients or deliverables.

Assistant Professor / Technical Trainer
Department of Computer Applications, CUSAT

September 2023 – September 2024 | Kochi, India
- Taught: OOP with Java, Web Technologies and Programming, Python, MongoDB, MySQL.
- Guided final-year projects and coordinated class activities.
- Conducted labs and hands-on coding sessions for data management and programming courses.

Software Engineer
IIT Palakkad Technology IHub Foundation (IPTIF)

November 2022 – February 2023 | Palakkad, India
- Worked on an AI-based Smart Agriculture Project.
- Conducted case studies and handled data collection and preprocessing.
- Mentored IIT OELP students and contributed to research proposals.

🧠 SKILLS

- Frontend: ReactJS, NextJS, HTML5, CSS3, JavaScript (ES6+), TypeScript, Tailwind CSS

- Backend: Node.js, Express.js, REST APIs, WebSockets

- Databases: NoSQL - MongoDB, SQL - PostgreSQL, MySQL

- Programming Languages: Java, JavaScript (ES6+), TypeScript , Python, C++

- Other Tools & Technologies: Git, GitHub, Agile (Basic), AWS (S3, EC2 - Basic), Visual Studio Code, Postman, Vite, npm, Prisma ORM, Turborepo

- Additional Skills: Data Structures and Algorithms, OOP (Java), JDBC, SEO, Content Writing

🎓 TECHNICAL TRAINING

Full Stack Web Development Cohort
100xdevs.com

October 2024 – present | India
- Gained hands-on experience with **MERN stack**: MongoDB, Express.js, React.js, Node.js
- Learned and applied **Next.js** for server-side rendering and optimized React applications
- Styled modern UIs using **Tailwind CSS** with responsive, utility-first design
- Used **Prisma ORM** for type-safe database queries with PostgreSQL
- Designed and tested **RESTful APIs** and backend services using **Express.js and Node.js**
- Managed version control and collaboration via **Git and GitHub**
- Building full-stack applications as part of the cohort's capstone projects

🎓 EDUCATION

M.Tech in Computer and Information Science
Cochin University of Science and Technology

November 2020 – July 2022 | Kochi, India
CGPA : 8.53

Content Writer
Web India Solutions
August 2020 – November 2020 | Kochi, India

- Technical Content Writing, Creative Content Writing
- SEO Copywriting, Marketing Copywriting
- Caption & Content Creation for Social Media Posters
- Website Content Writing

📁 PROJECTS

Portfolio Website 🔗

June 2025 – July 2025

- A modern, responsive portfolio website built with React, Tailwind CSS and Framer Motion
- Features smooth animations and dark mode
- Implemented a well organized folder struture and component based architecture for better maintainability
- Utilized Git and GitHub for version control, ensuring organized code management

Crown of Thorns Starfish (COTS) Detection in Underwater Image Data

January 2022 – July 2022

- An initiative to protect Australia's Great Barrier Reef from Coral Eating Starfish
- Model based on YOLOv5
- Predicts the presence of COTS in input images & draw bounding boxes around them along with confidence score

Delivery Management System

February 2020 – April 2020

- A Web application developed with Python and Django framework
- Helps managers to track the delivery details and delivery persons to view & update delivery information

🏅 ACHIEVEMENTS

UGC NET 2024 — (Qualified. Percentile : 95.16) |

UGC NET 2023 — (Qualified) |

GATE 2024 — Qualified | **GATE 2023** — Qualified |

GATE 2019 — Qualified |

3rd Rank Holder, M.Tech Computer & Information Science, 2022 — CUSAT

✏️ INTERESTS

Problem Solving | Photography & Editing |
Mathematics Enthusiast | Technology Enthusiast |
Sports & Fitness

B.Tech in Computer Science and Engineering
Cochin University of Science and Technology
August 2014 – May 2018 | Kochi, India
CGPA : 6.81

XIIth, CBSE
S N Vidya Bhavan
May 2014 | Chentrappinni, India
Percentage : 74.80

Xth, CBSE
S N Vidya Bhavan
May 2012 | Chentrappinni, India
CGPA : 9.80

🧠 ADDITIONAL LEARNING

Python for Data Science and AI
IBM via Coursera
November 2021 – February 2022
Gained foundational skills in Python, data types, control structures, and libraries like Pandas and Numpy.

Digital Marketing & SEO
Udemy
June 2020 – November 2021
Explored content strategy, email marketing, and SEO practices to understand online visibility during career breaks.

Python Django Web Development
Iroid Technologies, Kochi
January 2020 – May 2020
Built a delivery management web application while learning backend fundamentals using Django and API testing with Postman.

📑 CERTIFICATES

Python for Data Science, AI and Development : Offered by IBM 🔗
Coursera Certificate

Digital Marketing and SEO Course 🔗
Udemy Certificate

🌐 LANGUAGES

English — **Duolingo English Test Certificate** (October 2024): Scored 135/160 (CEFR C1 - Advanced). 🔗 |

Malayalam | **Hindi** | **Tamil**