Murali Krishna L

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Portfolio | LinkedIn | GitHub | Leetcode | Codeforces

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EDUCATION

Rajalakshmi Engineering College — Tamil Nadu, India
Bachelor of Engineering, Electronics and Communication; CGPA: 8.3 — **May 2025**
Don Bosco Matriculation Higher Secondary School — Tamil Nadu, India
SSLC and HSC, State Board; SSLC: 82.4% and HSC: 87.5% — **May 2021**

SKILLS SUMMARY

- **Frontend Tools:** React.js, HTML5, CSS3, Tailwind, Bootstrap, Flutter (Android), Shimmer, Animations
- **Backend & APIs:** Node.js, Express.js, Firebase Functions, REST APIs, JSON-based DB, Email/Password Auth
- **Database & State:** Firebase Firestore (NoSQL), MySQL, MongoDB (CRUD, aggregation), Session storage
- **CI/CD & DevOps:** GitHub Actions, Docker, Rclone, Firebase deploy, hosting & secret management, Datadog
- **UI Focus:** Chatbot UIs, dashboards, admin panels, responsive e-commerce sites, smooth user flows
- **Team Traits:** Fast learner, test early, build modular, polish later, communicate clearly with both devs and non-tech folks

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WORK EXPERIENCE

RESEARCH INTERN | Indian Institute of Technology, Madras (IITM) — **March 25- Present**
- Working on an international research project involving web dev, data analysis, visualization, and sensor integration.
- Actively learning and applying necessary tools and skills as part of the research process.

PROJECT TRAINEE INTERN | CODEXE Technologies — **July 24- October 24**
- Took part in developing multiple websites using both code-based stacks and no-code tools like WordPress.
- Deployed websites with custom domains on Hostinger, set up CI/CD, and resolved deployment, error, and uptime issues.

PROJECTS

AI DevOps Coach Chatbot | React.js, Node.js, Firebase, Gemini API, AWS, Docker — **May 25 – Present**
- Built a full-stack AI chatbot to analyze GitHub repos, tech stacks, and suggest CI/CD improvements using Gemini AI.
- Integrated Firebase Auth (Google/GitHub), Firestore DB, and Dockerizing frontend/backend hosting on EC2 with Compose.

Student Management App with CI/CD | Flutter, Firebase Auth, Firestore, GitHub Actions, Rclone — **May 25 – June 2025**
- Built a Flutter app for student registration and admin login, with email/password auth, verification, and Firestore-based profiles.
- Set up a CI/CD pipeline using GitHub Actions to auto-build APKs and upload to Google Drive via Rclone and secrets.

Vehicle Driver State Estimation | Python, OpenCV, dlib, scipy, PyQt5 — **January 25- March 2025**
- Built a real-time system to detect drowsiness via EAR and track driver distraction using YAW-based head movement.
- Added heart rate detection via facial video using SciPy; adjusted for head turns with YAW-based correction.

E-Commerce Website | Front-end stack, JSON, Node JS, Express JS — **October 24- November 2024**
- Developed an e-commerce site with features like product categories, payment integration, and JSON-based data storage.
- Implemented an admin dashboard for sales tracking, enabling efficient management of inventory and transactions.

CERTIFICATES AND COURSES

GitHub Foundations Certification | GitHub — **April 2025**
- Proficient in Git and GitHub workflows, including branching, merging, pull requests, and conflict resolution.
- Got hands-on experience with version control, repository management, and collaborative development in projects.

Postman API Fundamentals Student Expert Certification | Postman — **March 2025**
- Proficient in designing, testing, and documenting APIs using Postman's collaborative platform and built-in tools.
- Completed hands-on exercises in requests, environments, collections, and automated testing for real-world API workflows.

SQL Essential Training | NASBA and Linkedin Learning — **January 2025**
- Explored SQL fundamentals, including writing efficient queries, utilizing joins, and designing relational databases.
- Experienced advanced SQL techniques like subqueries, indexing, and query optimization strategy through hands-on practice.

MongoDB Developer's Toolkit: CRUD Mastery | GeekforGeeks — **December 2024**
- Mastered MongoDB features like CRUD, aggregation pipelines, and Javascript integration.
- Completed 75+ videos and 100+ MCQs, enhancing data modeling and real-world application skills.

ADDITIONAL HIGHLIGHTS

- Led *Design-A-Thon '24* event in my college with a 4-member team — handled event planning, logistics, and coordination.
- Mentored juniors in career guidance and project planning, including guidance on hosting, uptime, and debugging errors.
- Built 10+ mini-projects — several with a focus on automation, reliability, and system-like responsiveness.
- Now working on a time-loop AI game with cross-platform stack: Godot, Firebase, React/Flutter & FastAPI.