# 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**

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## SKILLS SUMMARY

- **Monitoring & Reliability:** Worked with Docker logs, Linux syslogs, Firebase Monitoring; currently diving into Grafana and Datadog.
- **Automation & Scripting:** Java, Python, Bash (basics) — write scripts to automate server tasks, data sync, and small utilities.
- **Cloud & Infra:** Hands-on with AWS (IAM, EC2, S3), GCP (Cloud Storage), Firebase (Auth, Firestore), Linux (CentOS, Ubuntu).
- **CI/CD & Dev Tools:** Git, GitHub Actions, Docker, Docker Compose, Postman — building mini CI/CD pipelines using AWS.
- **Web Tools:** Used Node.js, Express, and React.js to build interfaces like dashboards and chatbot UIs.
- **Database & Logs:** MySQL (indexes, SPs), Firestore (NoSQL), MongoDB (basics) — familiar with backend logging & debugging.
- **Team Traits:** Calm under pressure, love debugging, communicate clearly with both devs and non-tech folks, and quick learner.

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## WORK EXPERIENCE

**RESEARCH INTERN | Indian Institute of Technology, Madras (IITM)**                   **March 25- Present**
- Working on an international research project involving core research analysis, some data analysis skills and deep knowledge.
- Actively learning and applying necessary tools and skills that are required 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.

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## 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.

**Multi-Cloud Data Transfer with AWS and GCP | AWS (IAM, S3), GCP (Cloud Storage)**      **April 2025**
- Hands-on experience with transferring data between AWS S3 and Google Cloud Storage for redundancy and cost efficiency.
- Set up cross-cloud IAM access, enabled real-time sync with Amazon SQS, and resolved migration issues..

**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.

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## CERTIFICATES AND COURSES

**Oracle AI Vector Search Professional Certification | Oracle**                         **May 2025**
- Learned implementing vector-based AI search solutions, combining semantic search with traditional indexing methods.
- Had experience with embedding models, similarity search techniques, and enhancing search relevance in enterprise apps.

**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.

**Docker Foundations Professional Certificate | Docker**                             **January 2025**
- Learned the differences between containers and virtual machines, along with their use cases.
- Gained hands-on experience with Docker: managing containers, using Compose, and pushing images to registries.

**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.

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## 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.
- Currently starting to explore monitoring tools like Grafana and Datadog, and learning alert setups using AWS Lambda.
- Built 10+ mini-projects — several with a focus on automation, reliability, and system-like responsiveness.