

ARUN DODAMANI

Mangaluru, Karnataka

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Profile Summary

Aspiring Python Full Stack Developer with a basic foundation in Python and SQL, currently a 1st-year MCA student at SJEC. National Finalist at HackToFuture 2026 (Top 41 nationwide) in Cloud Architecture. Actively learning and interested in building scalable applications and automation systems.

Technical Skills

Languages: Python, SQL, HTML5, CSS3, JavaScript

Databases: MySQL, Firebase (Firestore & Authentication)

Tools: GitHub, Android Studio, VS Code

Field of Interest: AI & Automation, Full Stack Development

Projects

KubeHeal – Self-Healing Kubernetes System | *Python, Kubernetes, Docker*

- **National Finalist – HackToFuture 2026:** Top 41 out of 705+ teams in the Cloud Architecture track.
- Developed an automated failure detection and recovery system for Kubernetes pods using Python.
- Built monitoring agents to track pod health and trigger auto-restarts, achieving fully automated failure handling for tested scenarios.
- Designed CPU-based scaling logic to maintain high availability and optimize cluster performance.

BusTracker – Real-Time Schedule & Route Management | *PHP, MySQL, Bootstrap*

- Built a full-stack web application for managing public transport schedules with route-based and time-based search functionality.
- Designed and optimized MySQL database schema to filter valid buses based on real-time route progression.
- Developed a role-based system (Passenger/Driver) with authentication and trip lifecycle management (Inactive/Running).
- Implemented direction-aware search algorithms to ensure correct route sequencing and accurate trip results.

Awards & Certifications

- **National Finalist – HackToFuture 2026 (Cloud Architecture):** Secured a Top 41 position among 705+ teams and built a Kubernetes-based self-healing system using Python.
- **Complete Python Course:** Beginner to Advanced - **Udemy** (Ongoing) Building a basic foundation in Python, focusing on problem-solving, data structures, and scripting.
- **Responsive Web Development – freeCodeCamp (Ongoing):** Creating mobile-first web applications using HTML5, CSS3, and JavaScript.

Education

Master of Computer Applications

St. Joseph Engineering College (SJEC), Mangaluru

Expected Graduation: 2027

Current CGPA: 8.5

Bachelor of Computer Applications

Mangalore University, Karnataka

Graduated: 2025

CGPA: 8.7 / 10

Pre-University Course (PUC)

Govt. PU College Kavor, Karnataka

Completed: 2022

Percentage: 85%

Secondary School Leaving Certificate (SSLC)

Vidya Jyothi High School, Karnataka

Completed: 2020

Percentage: 83%

Extracurricular Activities

- Built and manage an educational Instagram page with **10K+ followers**, sharing knowledge-based content
- Manage a Telegram channel helping **PGCET aspirants** with guidance, updates, and resources
- Hobbies: Problem Solving, Sudoku, Photography