

Kushal Sonnad Math

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Education

Sahyadri College of Engineering and Management
Bachelor of Engineering in **Computer Science and Engineering**
Mangalore, Karnataka

Sep 2023 – Present
CGPA: 8.5

Technical Skills

- **Languages:** C, C++, Java, Python, SQL, JavaScript, React, Node.js, Flask, FastAPI, Next.js, MongoDB
- **Developer Tools:** Git, Docker, Google Cloud Platform, VS Code, PyCharm, IntelliJ, Eclipse
- **Operating Systems:** Arch Linux, Windows 11

Experience

Abhyudaya Softech – App Testing Intern

Apr 2025 – Jun 2025

- Tested applications using **EG Mobile APM** to analyze **performance metrics** and system behavior.
- Monitored response times, errors, and logs to support **performance evaluation**.
- Documented findings for future monitoring integration.

Sahyadri Open Source Community – Mentor

Jul 2025 – Aug 2025

- Mentored students in HackHarbor 3.0, a month-long internship for third-semester students.
- Taught **Linux fundamentals**, Git/GitHub workflows, and **open-source contribution** practices.

Projects

Pwnagotchi (Linux, IEEE 802.11, John the Ripper)

Jan 2025

- Installed, configured, and validated Pwnagotchi on Raspberry Pi 0W for passive **Wi-Fi handshake capture**.
- Tuned AI-based **reinforcement learning** parameters to improve WPA/WPA2 handshake capture reliability.
- Evaluated Wi-Fi password strength using controlled cracking workflows with **John the Ripper**.

Mangalore Bus Routes Application (Next.js, React, REST APIs)

Jul 2025

- Architected a **full-stack web application** to search, visualize, and explore city bus routes in Mangalore efficiently.
- Designed normalized route, stop, and timing datasets to enable **fast querying** and accurate frontend rendering.
- Developed a **scalable user interface** emphasizing usability and consistent navigation.

English to Tulu Translation Model (NLP, Deep Learning)

Nov 2025

- Curated, cleaned, and refined an English–Tulu dataset to improve **low-resource translation** quality.
- Implemented the base frontend interface to interact with the translation pipeline.
- Supported preprocessing and evaluation workflows for **NLP models**.

Organizations & Leadership

Google Developer Groups on Campus SCEM – Organizer

Aug 2025 – Present

- Organized **6 technical talks** across Flutter, Web Dev, UI/UX, and Firebase.
- Led a **72-hour online hackathon** with participants from multiple colleges.
- Managed speaker outreach, scheduling, and community engagement.

Sahyadri Open Source Community – Lead

Sep 2025 – Present

- Promoted **open-source collaboration** and guided peers in contributing to real-world projects.
- Participated in hackathons and contributed to repositories within and outside the organization.

Certifications

- **Google Cloud Computing Fundamentals** – Google Cloud SkillBoost (Oct 2023)
- **Google AI Essentials** – Coursera (Dec 2024)
- **Google Prompting Essentials** – Coursera (Feb 2025)
- **TechA Linux Programming Foundation Certification** – Infosys Springboard (May 2025)
- **Google IT Support Professional Certificate** – Coursera (Jun 2025)