

VIVEK NEERALAGI

Mangaluru, Karnataka, India, 575007

Computer Science Student Interested in Web Development, Open Source and NLP

☎ +91-8169838688 ✉ neeralagivivek@gmail.com 🌐 vivekneer.tech
🔗 linkedin.com/in/vivek-neeralagi 🏠 github.com/VivekNeer

EDUCATION

Sahyadri College of Engineering and Management
B.E. in Computer Science and Engineering (CGPA: 8.85)

Mangaluru, India
2023 – Present

EXPERIENCE

Sahyadri Open Source Community (SOSC)
Design Lead

Mangaluru, India
2024 – Present

- Lead UI/UX design for SOSC's digital platforms, maintaining visual consistency across projects and events.
- Design and implement responsive interfaces for the official website in collaboration with developers.
- Create event branding, posters, and social media creatives for technical workshops and open-source drives.
- Develop reusable design components and streamline design-to-development workflows.

OPEN SOURCE CONTRIBUTIONS

Hoppscotch | *JavaScript, TypeScript, CLI*

Commendation – FOSS Hack 2026

- Identified and fixed a bug in Hoppscotch, a widely-used open-source API testing platform, that was silently rounding off very large integers in JSON request bodies.
- Implemented the fix across both the web application and CLI, backed by comprehensive test coverage.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, SQL

Frontend: React, Next.js, Tailwind CSS, HTML5, CSS3

Backend: Node.js, Express, REST APIs

Machine Learning / NLP: PyTorch, Hugging Face Transformers, Tesseract OCR, OpenCV

Databases: MySQL, PostgreSQL

Tools: Git, Docker, Figma, Blender

PROJECTS

Conversational Model for Tulu Language Revitalization | *Python, mT5, Hugging Face, NLP*

- Fine-tuned an mT5 transformer model for English–Tulu conversational translation as part of a 4-member research team, guided by Dr. Mustafa Basthikodi, Dept. of CSE.
- Curated a custom English–Tulu dataset from authentic linguistic sources to address data scarcity for this low-resource Dravidian language.
- Built a digital Tulu dictionary and an interactive web frontend enabling real-time translation and language learning.

Redactly – Healthcare Data Redaction System | *Python, Tesseract OCR, NLP, OpenCV*

- Built an automated PII redaction system for healthcare documents using OCR and NLP-based entity detection.
- Integrated Tesseract with layout-aware processing to extract text from complex document structures.
- Implemented bounding-box positioning using coordinate mapping and image preprocessing.

Developer Portfolio with CMS Blog | *Astro, React, Sanity, TypeScript, Tailwind CSS*

- Designed and developed a modern, responsive portfolio website with integrated blog functionality using Astro and React.
- Integrated Sanity as a headless CMS to manage dynamic blog content with structured schemas and real-time updates.
- Implemented SEO optimization, dynamic routing, and markdown rendering for scalable content publishing.

WRITING

How to Bypass Your Network Firewall When VPN Gets Blocked (Shadowsocks + VPS) | *Medium* 1,900+ impressi

- Authored a technical article explaining DPI-based network filtering and end-to-end Shadowsocks proxy deployment on a VPS, covering server setup, routing rules, and mobile configuration.

COMMUNITY INVOLVEMENT

- Represented SOSC at **IndiaFOSS 2025** (Bangalore) and **MangaloreFOSS 2026** (NITK Surathkal), staffing community booths and engaging with developers across the national open-source ecosystem.
- Attended the **Singularity University Summit** (Bangalore) as an SOSC representative, engaging with speakers and innovators on exponential technologies and AI.

CERTIFICATIONS

- **Japanese Language Proficiency – NAT-TEST N5** (April 2026)