

KEERTHI KUMAR

B.E. CSE (AI & ML) Student | Open Source Contributor | Competitive Programmer
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PROFILE SUMMARY

Computer Science (AI & ML) undergraduate with a strong Python and problem-solving foundation (300+ LeetCode problems) and hands-on experience building an automated code-evaluation judge platform. 40+ open-source pull requests across Sugar Labs, Wagtail, OpenHealthCare, and Kubernetes ecosystem projects (Kyverno, Headlamp), plus code review work that requires clear written feedback. Experienced in asynchronous, remote collaboration and interested in creating and solving ML benchmark challenges.

PROJECTS

LeetCode-Style Judge Platform — Full-Stack Developer

- Built an automated judge pipeline for evaluating code submissions, using isolate for sandboxed execution, the Piston API, BullMQ job queues, PostgreSQL, Redis, and Socket.IO for real-time results, deployed via PM2 and Nginx.

Web Development — Frontend & Project Lead

- Designed and built websites and frontends for multiple projects, including leading a club website from concept to launch as tech lead.

COMPETITIVE PROGRAMMING

- LeetCode: 300+ problems solved — [profile](#)

OPEN SOURCE CONTRIBUTIONS

Sugar Labs — Code Reviewer & Contributor

- 30 merged pull requests across Music Blocks and related Sugar Labs repositories, spanning code, issue triage, and documentation.
- Worked on building important widgets functionality within Music Blocks.

ExtensionShield — Active Code Reviewer

- Active code reviewer for ExtensionShield, a Chrome extension security scanner and governance platform, focused on API architecture and system flows.

Wagtail — Contributor

- 4 pull requests contributed to Wagtail, an open-source Django-based content management system.

OpenHealthCare — Contributor

- 6 pull requests contributed to the OpenHealthCare open-source project.

Kubernetes (Headlamp) — Active Contributor

- Active contributor to Headlamp, a Kubernetes UI project under the Kubernetes/CNCF ecosystem.

Kubernetes (Kyverno) — Contributor

- Contributor to Kyverno, a Kubernetes-native policy engine under the Kubernetes/CNCF ecosystem.

EDUCATION

Rathinam Institute of Technology

B.E. Computer Science & Engineering (AI & ML)

TECHNICAL SKILLS

- ML & Data:** PyTorch, NumPy, pandas, scikit-learn, Jupyter, Matplotlib
- Languages:** Python, C++, JavaScript, TypeScript, PHP
- Web & Backend:** FastAPI, Node.js, Express, React, Socket.IO, REST APIs
- Data, Infra & Platforms:** PostgreSQL, MongoDB, Redis, BullMQ, Git, GitLab CI, PM2, Nginx, Drupal 11, drupal/ai