

R.V.Rajagopalan

+91 8169390040 ✉ rajagopalan602@gmail.com [in rv602](https://www.linkedin.com/in/rv602) [github rv602](https://github.com/rv602) [X rv260](https://x.com/rv260)

Technical Skills

Languages: JavaScript, TypeScript, Java, Python

Technologies: Next js, React js, Node js, FastAPI, MongoDB, PostgreSQL, AWS, Docker, Redis

Education

Amrita Vishwa Vidyapeetham 2021 - 2025 (Ongoing)
Bachelor of Technology in Computer Science (Artificial Intelligence) (CGPA : 7.5) Kerala, India

Smt Sulochanadevi Singhania School - ISC - Indian School Certificate 2012 - 2021
Middle and High School (12th Grade Percentage : 90.6 %) Thane, Maharashtra, India

Experience

ResumeSkool October 2023 – March 2024
Software Engineer | Next.js, Redux, PostgreSQL | [Website](#) Remote

Collaborated with a cross-functional team in developing ResumeSkool - a platform aiding students and professionals in crafting ATS-friendly resumes with AI assistance and expert guidance. Currently has 2000+ live users.

- Designed and implemented frontend pages, ensuring intuitive user experience and design standards.
- Contributed to schema design and developed error validation mechanisms to enhance data integrity.
- Suggested and implemented new features, optimizing platform functionality and adapting schema accordingly.

INCF - International Neuroinformatics Coordinating Facility May 2023 – October 2023
Google Summer of Code 2023 Student | Python, Mesa, Cloudflare | [Github](#) Remote

- Developed a framework for analyzing open-source community sustainability during GSoC 2023.
- Resolved bugs, proposed solutions, and ensured project sustainability.
- Enabled agent-based model integration into a user-friendly web interface.

Projects

Software Inventory - Vulnerability Detection System | *Tauri js, FastAPI, MongoDB, AWS EC2 | [Github](#)*

Collaborating on developing a vulnerability detection system for UNIX-based systems (Linux/macOS), focusing on identifying and addressing vulnerabilities in open-source dependencies.

- Built a system to scan JS and Python projects for vulnerabilities, providing CVE data and fixes.
- Designed a lightweight UI with Tauri.js and functional scripts in FastAPI for managing scan results.
- Expanding support for more languages and documenting the system in a research paper.

JUNO Editor | *PyQt, OpenCV | [Github](#)*

Collaborated on the NASA Space Apps 2022 Challenge to develop JUNO Editor, a GUI program enhancing JUNO mission satellite images by improving detail, color balance, and overall analysis.

- Engineered features for detailed image adjustments and color balancing, enhancing comprehension of JunoCam's visible-light images of Jupiter.
- Contributed to enhancing satellite images from NASA's Juno mission, fostering better understanding of Jupiter's atmosphere.

Positions of Responsibilities

amFOSS - Amritapuri Free and Open Source Software Club May 2022 - Present
Member and Mentor Kerala, India

amFOSS is India's leading open-source and Computer Science Club. Over the past 14 years, amFOSS has helped 100+ passionate students transform themselves into successful and innovative engineers, who today work across the world in Fortune 500 companies.

- Guided 20+ students and committed to ongoing mentorship for more, encouraging them to contribute to open source projects and participate in events such as hackathons, meetups etc.
- Conducted workshops and sessions on diverse topics, including Python and Web development, for various age groups, including school students and MBA students.