

Nayan Kasturi

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SUMMARY

I'm a Mumbai-based Flutter and Backend Developer, Bioinformatician and Software Engineer specializing in Python, Java, and modern web stacks. My work focuses on building tools like Scientry (automated scientific paper analyzer) and the Protein Research Toolkit (advanced protein structure and sequence analysis), where I combine distributed systems with biological domain knowledge to accelerate biomedical research. I've also developed Project Gatekeeper, a CNAME record based free and open-source SSL Issuance Toolkit. I constantly explore intersections between machine learning and molecular dynamics, maintaining active GitHub projects that bridge code with biological insights to solve healthcare challenges through scalable tech solutions.

EXPERIENCE

Team Leader

Viral Fission

November 2021 - August 2024, Mumbai, Maharashtra, India · Remote

- Led a team of 25-30 ambassadors, optimizing communication and processes to improve task completion, efficiency, and productivity.

Project Intern

Indian Women Scientists' Association

February 2023 - March 2023, Navi Mumbai, Maharashtra, India · Hybrid

- Conducted a literature review, designed composting experiments, and presented findings, improving process efficiency by 15%.

Flutter Developer

Exentrea

May 2025 - Present, Mumbai, IN

- Developed a production grade Android and iOS application and published it on PlayStore and AppStore.
- Managed the Server and Backend Security and Websites.
- Migrated flutter project from older framework to the latest one.

PROJECTS

Scientry: Simplifying Science, Amplifying Knowledge

Guru Nanak Khalsa College of Arts, Science & Commerce Matunga, Mumbai · play.google.com/store/apps/details?id=top.binarybiology.scientry

- Trained an LLM Model and developing an LLM-based platform that fetches research papers, generates simplified summaries, and creates interactive mind maps, reducing research time by 50% and enhancing comprehension.

Project Gatekeeper: All-in-One SSL Toolkit

Guru Nanak Khalsa College of Arts, Science & Commerce · gatekeeper.binarybiology.top/

Matunga, Mumbai

- An open-source automated SSL certificate generation toolkit that utilizes CNAME records to verify domains, instead of traditional TXT records. Gatekeeper helps by reducing costs by 99% and securing 23+ websites in under 10 minutes.

Protein Research Toolkit

Guru Nanak Khalsa College of Arts, Science & Commerce Matunga, Mumbai · github.com/RaannaKasturi/ProteinResearchToolkit

- Developed a Java-based GUI for protein toolkit that reduced visualization and alignment time by 40%, streamlined research workflows by 50%, and ensured 100% cross-platform compatibility.

EDUCATION

Master's of Science in Bioinformatics

Guru Nanak Khalsa College of Arts, Science & Commerce · Matunga, Mumbai · May 2025

- Pursuing Master's in Bioinformatics, focusing on databases, algorithms, and biological techniques, while also developing and managing the official BION'24 and BION'25 websites. Volunteered for graphic design and technical support to ensure successful event execution.

Bachelor's of Science in Biotechnology

SIES College of Arts, Science & Commerce · Sion, Mumbai · April 2023 · 7.91

- Earned a Bachelor's in Biotechnology with a 7.91 CGPA from SIES College, interned at IWSA, gaining composting and problem-solving skills. Developed graphic design and content creation expertise through extracurricular roles, refining creativity, teamwork, and communication abilities.

SKILLS

Tech Stack: Java, Git, Python, Flutter, Javascript, HTML, CSS, PostgreSQL, MySQL, Docker, WordPress, NextJS, Docker, LLMs, LangChain, LlamaCPP, Gradio, Cloudflare Workers

Bioinformatics: Research Skills, Flow Cytometry, Molecular Docking, Next-Generation Sequencing (NGS), Report Writing, Laboratory Skills, Biological Databases, Docking Studies

Miscellaneous: Leadership & Team Management, Autodidact, Fast Learner, Tech-Savvy, Adaptability, Problem-Solving, Graphic Designing, Content Writing

INVOLVEMENT

Web & Graphics Designer

Guru Nanak Khalsa College, Matunga • BION, Department of Bioinformatics • September 2023 – January 2025

Research Presenter

Guru Nanak Khalsa College, Matunga • SRIJNA, GNIRD • February 2024 – February 2024

Content & Creatives Volunteer

SIES College of Arts, Science & Commerce, Sion • Skyline Newsletter & Nirmitee Kendra • August 2021 – March 2023

Volunteer Staff

SIES College of Arts, Science & Commerce, Sion • Visions • June 2022 – December 2022

CERTIFICATIONS

A Complete Guide to Java Programming with Examples

Udemy • 2024

MedEngage Observership

Metropolis Healthcare • 2024

Python Programming for Beginners | Full Course in Hindi

Udemy • 2024

The Python 3 Certification Course

Udemy • 2024

Machine Learning

Acmegrade • 2024

Introduction to Next Generation Sequencing and Whole Genome Sequencing for Beginners

NyBerMan Bioinformatics Europe • 2024

60-hrs Hands-On Training Program in Molecular Biology

National Facility for Biopharmaceuticals • 2024

Advanced Instrumentation Techniques

SIES School of Packaging – Packaging Technology Centre • 2022

Photography Skill Enhancement Workshop

SIES College of Arts, Science & Commerce SION(W) • 2022

Astrobiology and the Search for Extraterrestrial Life

Coursera • 2021

Git, GitHub & Markdown Crash Course: Learn Git, GitHub & MD

Udemy • 2016
