

Nayan Kasturi

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SUMMARY

I'm a Mumbai-based results-driven **Full-Stack Developer** with proven expertise in **Flutter, NodeJS, Java, Python, databases, and cloud infrastructure**, delivering secure, scalable, production-ready applications. Experienced in owning products end-to-end, from system architecture and backend services to polished frontends and deployment, while driving measurable impact, including **50%+ efficiency improvements** and improved user retention. Strong background in **LLM-powered systems, automation, and DevOps-aware development**, combining technical depth with disciplined execution in collaborative, high-performance teams.

EXPERIENCE

Flutter Developer

Exentrea

May 2025 - January 2026, Mumbai, IN · On-site

- Migrated & maintained a production grade Flutter (Android and iOS) application and published on PlayStore and AppStore within 5 months.
- Implemented retargeting strategies using ML, deeplink and notifications to boosting user retention and revisits by 20%.
- Managed the Ubuntu/Linux Server and Backend (Java) Security & Compression, prevented 2 DDoS attacks using Cloudflare.

Project Intern

Indian Women Scientists' Association

February 2023 - March 2023, Navi Mumbai, IN · Hybrid

- Conducted a literature review of 30+ papers to guide composting experiment design.
- Executed composting experiments, monitoring temperature, pH, moisture, and microbial growth.
- Co-authored a technical report and presented findings at a research conference.

Team Leader

Viral Fission

March 2022 - December 2022, Mumbai, IN · WFH

- Led and mentored a team of 25-30 interns and ambassadors, ensuring consistently high-quality deliverables through hands-on reviews.
- Coordinated clear, efficient communication within the team and across leads and supervisors.
- Actively contributed to execution while guiding tasks to timely and successful completion.

PROJECT

Scientry: Simplifying Science, Amplifying Knowledge

scientry.pandrilalabs.com

- Trained an LLM and built Scientry, an AI research platform generating summaries and interactive mind maps from papers.
- Reduced research time by 50% by simplifying content from arXiv & PubMed Central into visual insights.
- Delivered a cross-platform PWA app (Android & iOS) with caching, bookmarking, and custom backend auth.

Protein Research Toolkit

github.com/RaannaKasturi/ProteinResearchToolkit

- Developed a Java-based cross-platform Protein Research Toolkit GUI for protein analysis.
- Improved visualization and alignment speed by 40% and workflow efficiency by 50%.
- Integrated PDB/UniProt search, literature lookup, and citation tools in a unified interface.

Project Gatekeeper: All-in-One SSL Toolkit

gatekeeper.binarybiology.top

- Built Gatekeeper, an open-source SSL automation toolkit using CNAME-based domain verification instead of TXT records.
- Reduced SSL costs by 99% and secured 23+ websites in under 10 minutes via automated issuance and renewal.
- Implemented end-to-end SSL management (generation, verification, integrity checks) with Vercel frontend and Hugging Face backend.

EDUCATION

Master's of Science

Guru Nanak Khalsa College of Arts, Science & Commerce · Matunga, Mumbai · 2025 · 8.57

- Specialized in bioinformatics databases, algorithms, and biological techniques and developed and managed official BION'24 & BION'25 websites, ensuring reliable delivery and volunteering in graphic design and technical operations to support large-scale academic events.

Bachelor's of Science

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

- Interned at IWSA (composting research) with added strengths in design, content, teamwork, and communication.

SKILLS

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

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

CERTIFICATIONS

Learn Java from Scratch

Educative • 2026

A Complete Guide to Java Programming with Examples

Udemy • 2024

Python Programming for Beginners | Full Course in Hindi

Udemy • 2024

The Python 3 Certification Course

Udemy • 2024

Machine Learning

Acmegrade • 2024

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

Udemy • 2016

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 & Nirmittee Kendra • August 2021 - March 2023

Volunteer Staff

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