

# Rashil Gandhi

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## EDUCATION

- **Indian Institute of Technology, Kharagpur** WB, India  
B.Tech. + M.Tech., Computer Science and Engineering; GPA: 8.77 2018 - 2023

## EXPERIENCE

- **Sarvam AI** | Bangalore, India Aug 2025 - Present
  - Backend Engineer on the **Agents Platform** team, architecting real-time **conversational AI** infrastructure for **WhatsApp**-based multilingual customer interactions using **Python FastAPI** microservices.
  - Engineered a resilient, scalable event-driven system leveraging Redis PubSub key expiry notifications to forward time-delayed conversation events to dedicated processing streams, implementing asynchronous batch processing and retry mechanisms to handle high-throughput post-conversation workflows including sentiment analysis, feedback collection, and user reminders.
- **Enphase Solar Energy Pvt. Ltd.** | Bangalore, India Jul 2023 - Jul 2025
  - Backend Engineer, integrating into the **Events Microservices** team, working with service **architecture**, **data pipelines**, and **backend** systems, contributing to the enhancement of service delivery by **remodelling legacy services**.
  - Awarded **Quarterly Excellence in Quality** for ensuring data consistency during a high-stakes (120M requests/day) live migration from **MySQL** to **CassandraDB**, focusing on **CDC** processes using **Kafka** and ensuring **zero downtime**.
  - Successfully executed the **migration** of a **large-scale monolith** service backend to **Spring Boot 3**, enhancing a critical internal service used by numerous systems and handling a **high volume of requests** per day.
- **Honeywell Connected Enterprise** | Bangalore, India May 2022 - Jul 2022
  - Engineering Intern, worked on **Niagara**, a comprehensive software infrastructure for connecting real-time operational data to the people and systems that manage workflows in **smart buildings**.
  - Created an overview dashboard for managing visitors, badges, and access controls in and out of a building space.
  - Integrated **real-time monitoring** of visitors by plotting data in a React application with the help of **C3.js** library.
- **Wingify Software Pvt. Ltd.** | Delhi, India Apr 2020 - Jun 2020
  - Engineering Intern, worked on adding features to and improving their flagship product, VWO Testing's **website editor**.
  - Ran **Puppeteer cluster** experiments to see popular libraries used by Alexa's top 1000 websites and tabulated the data.
  - Used **Handlebars** templates, parsed and tokenized user input using **Esprima** to load JavaScript functions at runtime.

## OPEN SOURCE PROJECTS

- **Scoop** (Maintainer) A command-line package installer
  - Streamlined and unified structure and codebase of primary official package repositories (buckets), and added **test** and **template buckets** for users to maintain their own buckets.
  - Helped migrate **tests CI** and automated **package update CD** from AppVeyor to GitHub Actions.
  - **Refactored** subcommands of the core package manager to return rich PowerShell **objects** instead of raw text.
  - Revamped the official user-facing website, and added Contributing **guides**, Readmes, updated **Wikis** and instated issue and PR templates to make outside contributions easier. Fixed, tested and merged close to **500 pending issues** and **PRs**.
  - Took **ownership** of project and **headed** above changes, leading to a **30% increase** in usage/engagement statistics.
- **Personal CMS** (Author) Complete content management system for personal blogs and projects
  - Written in React using **Next.js** with **ISR**, styled with **LaTeX.css** for a minimalistic UI, and deployed on **Vercel**.
  - Integrated a rich **Markdown editor** for creating and editing blog posts and projects, with data persistence via **MongoDB**.
  - Enabled **media uploads** and previews through **Vercel Blob**, and embedded **Disqus threads** for real-time discussions.
  - Built secure **authentication** using **NextAuth.js**, with **API Routes** handling protected operations and server-side logic.
- **Winfetch** (Maintainer) A command-line system information utility
  - **Added** multiple environment, software and hardware **information segments**, fixed bugs, **increased efficiency** and improved overall aesthetics, bringing a **quintuple increase** in usage/engagement statistics since taking **maintainership**.

## HACKATHONS

- **InterIIT: Sneaking into the Cyber-cracks:** Bagged 1st prize in the inter IIT cybersecurity hackathon. Developed working proof-of-concept exploits for 7 given security vulnerabilities in web-based applications.
- **Flipkart GRID 2.0:** Among top 36 teams to qualify for Level 3 out of 10000+ teams. Developed a LSTM+RNN based model that denoises and separates primary speaker from given audio sample, identifies primary language and converts it to text.
- **IBM GreenHack:** Declared winning team out of 60 participant teams. Developed an LSTM based model trained on weather data which takes into account irregularities in weather patterns to suggest crops for highest yield in a particular region.

## SKILLS

- **Programming:** JavaScript, C, C++, PowerShell, Java, Lua, Bash, Python, Rust (Basic), Go (Basic)
- **Frameworks/Libraries:** Node, Express, Spring Boot, FastAPI, Amazon SQS, Next, MongoDB, Cassandra, Redis, Kafka
- **Software:** FL Studio, Premiere Pro, Photoshop • **Systems/Platforms:** Git, Kubernetes, WSL, Azure, GitHub Actions

## ACHIEVEMENTS

- **Joint Entrance Exam:** Rank 1490 out of 1M candidates in JEE Mains and 362 out of 230k candidates in JEE Advanced
- **Kishore Vaigyanik Protsahan Yojana:** Fellowship Awardee, qualifying for National Science Camp held in IISc Bangalore