

# 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

- **Enphase Solar Energy Pvt. Ltd.** | Bangalore, India *Jul 2023 - Present*
  - 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.
  - Implemented new **API endpoints** for migrated services using **Java SpringBoot**, streamlining data access and integration.
- **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.
- **Lessonpal, Inc** | California, USA *Feb 2021 - Aug 2021*
  - Full Stack Developer, developed a first-of-a-kind global, peer-to-peer real-time **online tutoring platform**.
  - **Refactored** legacy code to improve loading **performance** and completely removed **technical debt**.
  - Wrote **unit** and **integration tests** for GraphQL queries, mutations and React DOM components, using the **Jest** framework, to improve code **coverage**. Fixed bugs and implemented features on the frontend.
- **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 **Express.js**, uses **MongoDB** as database, **Mongoose** for ODM and **Postman** for API documentation.
  - **Multer** middleware is used for **static asset** storage on the filesystem, and **Passport.js** is used for user authentication.
  - Minimal frontend written in **React** and uses **Next.js** for static site generation (ISR) and **Vercel** for deployment.
- **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, HTML/CSS, Bash, Python, Rust (Basic), Go (Basic)
- **Frameworks/Libraries**: Node, Express, Spring Boot, React, Amazon SQS, Next, MongoDB, Cassandra, MySQL, Kafka
- **Software**: FL Studio, Premiere Pro, Photoshop • **Systems/Platforms**: Git, Windows, Linux, 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