

# 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

- **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 single-page-application, with the help of **C3.js** library, and with layout designed using Bootstrap.
- **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 **20% increase** in usage/engagement statistics.
- **Winfetch** 📦 (Maintainer) *A command-line system information utility*
  - **Added** multiple environment, software and hardware **information segments**, resolved pending **issues**, **increased efficiency** and improved overall aesthetics.
  - Above changes brought a **quadruple increase** in usage/engagement statistics since taking **maintainership**.
- **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.
- **DYSTuss** 📦 (Author) *A fully featured movie discussion forum built on the Fluent Design language*
  - Written in **React** and customized with the **ReactUWP** theme library.
  - Supports Reddit-style **blog posts** and **nested comments**, user **authentication**, personal profiles for storing user data, **recommendation system**, local colorschemes, and a **search** page and **index** for looking up media.
  - Powered by a **Flask** RESTPlus API on the back, integrated with the frontend through **Axios** and Axios Interceptor calls.

## SKILLS

- **Programming:** JavaScript, C, C++, PowerShell, HTML/CSS, Bash, Python, Rust (Basic), Go (Basic)
- **Frameworks/Libraries:** Node, Express, React, Bootstrap, Next, MongoDB, Mongoose, SASS, Jest
- **Software:** FL Studio, Premiere Pro, Photoshop • **Systems/Platforms:** Git, Windows, Linux, WSL, Azure, GitHub Actions

## AWARDS AND 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
- **National Talent Search Examination:** Scholarship Awardee • **Homi Bhabha Balvaidnyanik Spardha** Silver Medallist

## EXTRACURRICULAR

- **The Scholars' Avenue:** Content Designer and Web Developer at the independently-run college student media body. Helped in gathering information for, designing and publishing the annual Freshers' Issue newsletter
- **Technology Filmmaking and Photography Society:** Sound and Video Designer at the college filmmaking society, making artistic and impactful short films. Mentored and directed one of the Freshers' Productions, named MINE.