

# Dheeresh Agarwal

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Agra, India

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[linkedin.com/in/dheereshagrwal](https://linkedin.com/in/dheereshagrwal)

## Education

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Indian Institute of Technology, Bhubaneswar

(2017 - 2022)

B.Tech (Integrated)

CGPA: 8.11

## Work Experience

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TaxHoa - Software Engineer

(Dec 2022 - Present)

- Developed **automated workflows** for document generation and tax calculations **reducing manual effort**, saving clients **2 hours** per filing.
- Enhanced interactivity and **user engagement** by creating an **event-driven notification** system.
- Optimized **API performance** through **asynchronous programming**, significantly reducing response times from 30 seconds to 0.5 seconds.
- Created the **staging and admin dashboard**, enhancing the platform's functionality and user interface.
- Leveraged API integrations to **auto-populate** tax forms with existing user data, further reducing repetitive data entry by an average of **80%**.
- Led the development of robust and automated backend solutions for web3-based NFT avatars.

RingCentral - Software Engineer

(Jul 2022 - Nov 2022)

- Optimized managers' daily workflow, saving them **0.5 hours** a day by integrating a chatbot with Concur APIs to expedite the **approval or rejection** of employee expense reports.
- Enabled **instant access to session insights** by automating the delivery of webinar summaries to the host after each session, utilizing Zapier and webhooks.

## Publications

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A kinetic model for qualitative understanding and analysis of the effect of 'complete lockdown' imposed by India for controlling the COVID-19 disease spread by the SARS-CoV-2 virus.

[arxiv.org/abs/2004.05684](https://arxiv.org/abs/2004.05684)

## Technical Skills

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**Frameworks and Toolkits:** Django, Node.js, Next.js/React.js, Tailwind CSS

**Programming languages:** C/C++, TypeScript/JavaScript, Python, SQL

**Databases:** PostgreSQL, MongoDB, Firebase, Redis

**DevOps & Others:** Git, GCP, Docker, CI/CD, pytest, Jest, Jira

## Achievements

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- Secured All India Rank **915** in the GATE **Data Science & AI** exam this year.
- Contributed bug fixes and enhancements to the **Kibo UI** open-source React component library, built on top of shadcn for accessible, advanced UI elements in web apps. (commit [0dd3412](#), issue [182](#)).
- Created an open-source project, coloured-icons, having **260+** GitHub stars and **55+** forks, simplifying icon integration for developers using a CDN based approach. [coloured-icons.vercel.app](https://coloured-icons.vercel.app)
- Guardian** on LeetCode with a maximum rating of **2198**. [leetcode.com/u/dheereshagrwal](https://leetcode.com/u/dheereshagrwal)

## Positions of Responsibility

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- Class Representative (2017 - 2020)
- Gym Secretary (2019 - 2020)