

# Rajat Sehgal

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## EDUCATION AND HONORS

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### Indian Institute of Technology, Roorkee

Bachelor of Technology in Material Science Engineering

May 2014 - May 2018

GPA: 7.7/10

### Delhi Public School, Aligarh

Intermediate (Class 12 CBSE)

March 2013

92.6 %

## TECHNICAL SKILLS

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### Programming Languages/Frameworks

JavaScript, TypeScript, NodeJS, SQL, NestJS, React, Python, NoSQL

### Operating Systems

Macintosh, Linux, Windows

### Other Tools

Version Control (Git), Docker, Jenkins, Redis, PostgreSQL, Scrum, AWS (S3, Lambda, CloudWatch, EC2, ECS, SQS, SNS), Jira, Sequelize

## PROFESSIONAL EXPERIENCE

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### ATMA

Remote, Indonesia

#### Backend Engineer

July 2022 - Present

- Delivered **34%** of JIRA tasks and managed **40%** of GitHub pull requests, showcasing **ownership, collaboration**, and a **data-driven** approach.
- Built a **scalable notification system** using **AWS SQS/SNS**, delivering **10,000+ notifications/month**, enhancing **user engagement**.
- Designed a **high-performance microservices queue system**, ensuring consistent data synchronization for millions of users.
- Replaced **Sendbird APIs** with **HTTPS APIs** for chat service and initiated **MQTT integration**, achieving **~\$95,000/year of cost savings**.
- Developed an in-house **location data system**, eliminating third-party API dependency and **saving ~\$50,000/year**.
- Boosted **API performance** by **10x** with **Redis caching**, optimizing response times for **high-traffic endpoints**.
- Migrated **7K+ job records** and **1M+ user locations**, ensuring data reliability and scalability.
- Automated **job expiry** and **notification workflows** using **serverless AWS Lambda and cronjobs**, reducing manual intervention by **90%**.
- Authored comprehensive **Notion documentation**, streamlining onboarding, **DevOps processes**, and **knowledge transfer**.

### FARMFETCH

Remote, USA

#### Full Stack Engineer

October 2021 - July 2022

- Led a **3-member team** to build a scalable platform using **React, Node.js**, and **Azure Cosmos DB**.
- Optimized **NestJS APIs**, improving **performance and scalability by 30%**.
- Developed a **dynamic reporting system** using **EJS templates**, cutting reporting time by **40%**.
- Refactored the **React app** with **Redux**, improving data flow and reducing data flow issues by **20%**.

### ASTS Technology

Remote, Australia

#### Full Stack Engineer

May 2020 - October 2021

- Led the development of a **user-centric platform** using **React** and **Node.js**, enabling lecturers to manage **5,000+ students' progress**.
- Automated results and attendance tracking, reducing workload by **70%** through **process optimization**.
- Built a configurable reporting tool, increasing productivity by **20%** with **automation**.
- Designed a **drag-and-drop intervention framework**, driving the product's **best-selling feature**.
- Created a reusable **React component library**, reducing client-side codebase by **30%** and improving **developer efficiency**.

### Lumiq.ai

Noida, India

#### Software Engineer

June 2018 - April 2020

- Designed and optimized **API endpoints** for **loan risk calculation**, supporting **100,000+ users** with **data-driven insights**.
- Improved CSV file validation accuracy by **80%**, ensuring precise error detection and efficient data processing.
- Single-handedly Designed and created **Angular** web application for cognitive receipt recognition engine using **HTML, bootstrap** and **flask** as a **python** microframework.
- Developed a **blockchain-powered KYC encryption system** using **Ethereum** and **RSA algorithms**, ensuring secure data storage and accessibility.

## PROJECTS AND LEADERSHIP

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### pgHENCHMAN (*pgenchman.netlify.app*)

December 2020

- Built an Open-Source PostgreSQL Client using Angular and NodeJS for administration and development.
- Includes intuitive GUI for easy usage and ad-hoc analysis on the postgres database featuring SQL history, csv to table creation, remote connections etc.

### Short URL (*https://github.com/riitr/url-shortner*)

August 2022

- Designed and built this application using React typescript framework and can be used to convert any URL into your own password-protected short URL.

### CSV File Handler (*csv-file-handler.netlify.app*)

April 2021

- Designed and developed React application backed with AWS Lambda (Netlify) to convert csv files into structured json and filtered headers.

### Indian Institute of Technology, Roorkee

*Co-coordinator, Cognizance (Technical College Festival)*

June 2018 - April 2020

- Led the team of 35 volunteers to manage several activities like accommodation, registration process of participants etc.

## AWARDS AND ACHIEVEMENTS

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- Certified **AWS Developer Associate**.
- National Cyber Olympiad (NCO) 2012- **International Rank-59** and **State Rank-7**.
- Awarded with 0.1 percentile certificate for scoring **100(100) marks** in **Mathematics** in Class XII (Intermediate).
- **pgHENCHMAN** (one of my projects) got listed on **PostgreSQL** official website under *Software Catalogue - Administration/development tools*.
- Tech **Blogger** on **Medium**, blogs like “*Create your first React application with express and mongodb*” with +12250 views.