

# Somnath Pal

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GitHub Profile  
LinkedIn Profile

## EDUCATION

- Indian Institute of Information Technology, Kalyani** 2021  
Bachelor of Technology in Computer Science and Engineering CGPA: 8.01
- MVN Aravali Hills** 2017  
CBSE 12th Standard (2017) Percentage: 89% (PHY: 91, CHEM: 94, MATH: 95)  
CBSE 10th Standard (2015) CGPA: 8.8

## EXPERIENCE

- Spinny** September 2023 to Present  
Software Engineer II Gurgaon
  - Designed and developed framework for auction report. Used complex DFS based algorithm to generate reports. Leveraged design patterns like Factory, Builder and Template.
  - Used threadpool to fetch data, reducing overall time by 33%. Maintained one report per lead, reducing DB storage by 47% on a weekly basis.
  - Employed a backend-driven architecture to prevent Mobile/Web app changes, reducing development effort by 66% for future updates. Served optimized WebP images with appropriate renditions. Improved rendering with API time on the mobile app by 45%, also reduced memory usage on mobile apps by 20%.
  - Developed car ratings in auction which significantly improved clarity on the car condition. Increased bidding participation by around 75%. Worked with product and business teams to design the scoring methodology. Added configurability at every step for flexible formula behavior.
  - Developed feature for unread notifications, policies, and updates count. Enabled live updates using RealtimeDB. Used Celery for asynchronous operations. Used batching and threadpool to speed up bulk updates by 54%.
  - Developed car scoring for post stock-in journey to automate lead categorization thereby eliminating manual effort. Simplified further processes around warranty, sales, insurance, buy-back, etc.
- Quolum** June 2021 to August 2023  
Software Engineer Bangalore
  - Designed and implemented a polling system which tracks user inactivity leading to auto-logout.
  - Built lock, unlock and terminate feature for credit card to give card users more control and security.
  - Integrated 7 SaaS applications (SonarCloud, WebEngage, Linear, Lemlist, Splunk, Drift, OpenAI) for generating data points to track utilisation. Used BFS based algorithm to crawl data, applied various software design patterns like template, factory etc. Wrote unit tests.
  - Worked on redacting and encrypting sensitive information using AES while pulling data from 120+ SaaS Apps before any further processing to adhere to compliances and best practices.
  - Used AWS EventBridge and AWS Lambda to process background jobs. Implemented slack notifications for background jobs for better monitoring. Improved visibility resulted in quick resolution of errors.
  - Developed a design system on frontend that reduced time in prototyping newer components exponentially. Built React components with several optimizations like lazy loading, memoizing components and functions, debouncing, virtualization, etc. which improved the performance and experience significantly.

## TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL

Databases: MySQL, MongoDB, PostgreSQL, DynamoDB, RealtimeDB

Miscellaneous: Django, Kafka, gRPC, Celery, Spring Boot, GraphQL, etc

## ACHIEVEMENTS

- Smart India Hackathon Finalist** 2020
- Among Top 11% Globally** Global Ranking 10,542 out of 94,000 on [AtCoder](#) 2020
- Among Top 7% Globally** Global ranking 7000 out of 94,500 on [HackerEarth](#) 2020
- Among Top 6% Globally** Global ranking 7593 out of 210,000 on [CodeChef](#) 2019
- Among Top 10% in JEE Advance 2017** Secured rank 17,919 (out of 180,000) 2017
- Among Top 2% in JEE Mains 2017** Secured rank 26,765 (out of 1,400,000) 2017