

# Sashi Bhushan A Rajput

Github Link

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## EDUCATION

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- Rashtriya Raksha University** Gandhinagar, Gujarat
  - Bachelor of Technology - Computer Science and Engineering; SPI : 8.6* *September 2017 - June 2022*
  - Courses:** Data Structures, Analysis Of Algorithms, Database Management Systems, Operating Systems, Networking

## SKILLS SUMMARY

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- **Languages:** Java, C++, Python, Go
- **API Design:** GraphQL, REST
- **Frameworks:** Spring Boot
- **Databases & Tools:** PostgreSQL, PostGIS, AWS

## EXPERIENCE

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- Software Engineer @ AiDash** Bengaluru, KA
  - Full Time* *June 2022 - Present*
    - Led and built the report builder system including notification services that can create and send notifications to users for the reports on a periodical basis using cron jobs, web sockets, and GraphQL subscriptions
    - Designed and implemented high-performance dashboards using Materialized Views, Eager Materialized Views design patterns and invalidated data through scheduled jobs and DB triggers which reduced our dashboards APIs p95 response times by 16x
    - Led and implemented the development of different NCRAT metrics by designing flexible DB schema conforming to 3NF and implemented the APIs for serving them
    - Introduced PostGIS library usage for Geospatial operations on Geometry data in DB after doing a POC on it, and learnt and used it extensively for different operations such as intersection, buffering, size computation, and geometrical transformations, etc.
    - Implemented a email service using JavaMail API for sending emails with support for custom templates, list of recipients, attachments support which has been used extensively for sending email notifications across our product
- Software Developer @ AiDash** Bengaluru, KA
  - Intern* *Jan 2022 - June 2022*
    - Created API for running Scheduled API calls for storing carbon emission data from third party sources using cron scheduler
    - Integrated Roles and Permissions modules for authentication and authorization using Auth0
    - Enabled our data providers to upload their satellite observations by simply uploading their files and removed the overhead of manual insertion of data from Backend

## PROJECTS

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- **Redis Server:**
  - Implemented a Redis TCP server in Golang for the purpose of learning Redis Internals and learning Golang
  - RESP 2.0 protocol support for communication support between Redis client and server
  - Commands implemented - PING, GET, SET, TTL
  - Tech Used - Golang
  - Source Code Link
- **BishopKara Chess Engine with GUI:**
  - Created a Chess Engine with my friend, in which the AI uses NegaMax Algorithm for evaluating moves by doing a 3 ply search on our local computers.
  - The whole Chess Engine is implemented in the OOPS paradigm.
  - GUI is implemented using pygame library.
  - Tech Used - Python and its pygame library.
  - Source Code Link

## HONORS AND AWARDS

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- 326th All India Rank in ICPC Amritapuri Regionals 2020 [ICPC Profile Link](#)
- Global Rank 36 among 4600+ coders in November Lunchtime 2020 Div 2 Contest at CodeChef. [LeaderBoard Link](#)
- Global Rank 66 among 2000+ coders in October Codechef Cookoff 2021 Div 2 Contest [LeaderBoard Link](#)
- Became an Embark Fellow by being in the top 98 percentile in ESAT for Embark 2021 [Embark Program Link](#)

## CODING PROFILES

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- [Codechef Link](#) [Codeforces Link](#) [AtCoder Link](#) [HackerEarth Link](#)