

Sonam Sinha

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Technical Skills

Languages: Python, Django, Core Java, Novice JavaScript.

Computer Science: Data Structure & Algorithms, RDBMS, OOPS.

Database: Postgres, MySQL, Oracle.

Others: Git/Github, J2EE, JSP, Struts, REST APIs

Project Experience:

Enhanced Cloud-Based Authentication Protocol for Health Monitoring System

- Performed R&D on a cloud based encrypted communication platform using **Pro-Verif**.
- It added an **extra layer of security** in communication for health monitoring preserving the privacy of the users.

Cloud based Secure Authenticated Protocol for e-HealthCare System

- Created an enhanced cloud based authenticated protocol by overcoming the drawbacks of “Enhanced Cloud-Based Authentication Protocol for Health Monitoring System” while communication in healthcare system in a more secure manner preserving the privacy of the users.
- It added several advantages to the **security** and communication in this project as well.
- The verification of security has been done using **Pro-Verif** platform.

Login Page using JavaFX Scene Builder

- Created a login page using **JavaFX Scene Builder** tool on **Net beans** Platform.

Work Experience:

Policy Bazaar Pvt Ltd – Software Engineer

Gurugram, IN | August 2018 – Present

- Worked on various modules of Doc Prime Project in **Django** on **PyCharm**.
- Created an optimized **SEO** (Search Engine Optimization) , **breadcrumbs** and **sitemaps**.
- Designed and implemented the **search journey of the product**.
- Worked on ratings and reviews.
- Worked on data retrieval from **Google Map APIs**.
- Implemented **comments** and **replies** on Article page.
- Worked on various modules of **Admin**.

Bharat Heavy Electricals Limited – Intern (Software Engineering)

Haridwar, IN | July 2014 – August 2014

- Designed and Implemented Employee Database Management System using **Java** and **Oracle**.
- Analyze and finding the effective solution, while performing concurrent actions on common database, to avoid deadlock and starvation issues.
- Worked on managing and displaying employee information.

Education:

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| • M.Tech in Computer Science, IIT(ISM) Dhanbad | June, 2018 |
| • B.Tech in Computer Science, Echelon Institute of Technology | June 2015 |
| • 12th, C.B.S.E. | March 2011 |
| • 10th, C.B.S.E. | March 2009 |

Interests and achievements:

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| • Modeling Contest in Srijan, IIT(ISM) Dhanbad | March, 2017 |
| • Participation in Indian Robot Olympiad, Faridabad | October, 2012 |
| • Participation in Anchoring'12, Faridabad | October, 2012 |