

# SURAJ MANE

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## Education

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### Virginia Tech

*Master of Engineering in Computer Science*

**May 2022, GPA - 3.9**

*Blacksburg, VA*

### Sinhgad Academy of Engineering

*Bachelor of Engineering in Computer Engineering*

**May 2017, GPA - 3.5**

*Pune, India*

## Graduate courses taken

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Models of human computer interaction | Virtual environments | Software project management | Ethics and professionalism | Information retrieval | Information Visualization | Advanced machine learning | Data Analytics | Database management systems

## Relevant Experience

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### Scribes and Notes Recommender System | Python | Research and Development

**September 2021**

- Working on a personalized recommender system for students to get lecture notes and scribes.
- User needs to provide a search query and can choose a difficulty level(three ordinal values Hard, Medium and easy).
- The results returned would be links to lecture notes and scribes which are open source, so the user doesn't need to create account or sign up which is usually the case now.

### Movie Ratings | Python | Web crawling

**August 2021**

- Designed a web crawler in Python which accepts movie name and gets the user ratings from Rotten Tomatoes.
- Used BeautifulSoup instead of Selenium which gets results from the website in no time without the driver API and no limitation on number of requests.

### M-Ernest | Python | Research Intensive

**May 2021**

- Modified Ernest, a resource configuration prediction tool for big data load to add data skew as an extra parameter.
- Modified, tested and plotted the results to show that the added skew parameter does improve the accuracy of prediction by 3-4 percentage.

### Larsen and Toubro Infotech

**Sep 2017 - Nov 2020**

*Software Developer*

*Pune, India*

- Worked on management and creation of tools and methods in Java and Informatica needed to synthesize test data in a Agile team of Personal Insurance domain on Travelers Insurance company.
- Created, documented and optimized all the required set of SQL queries used on daily basis by the team for mining data from various sources like Teradata and Hadoop.
- Developed mappings in Informatica Powercenter to extract, transform and load data from various sources to targets which helped the team to achieve high quality and reliable data faster than before.
- Created automation scripts in Java Selenium to automate Traveler's web UI for Auto and Home Policy issuance of the test bed.
- Spearheaded complex projects and delivered, trained and lead over a team of 6 new hires.
- Expertise in client management and retention in a service based organization.

## Skills

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**Advanced level:** Python, Java Selenium, C++, HTML/CSS, SQL

**Working knowledge:** PySpark, Map-Reduce, PowerBI, Tableau, JavaScript, D3, Linux, VBScript, GitHub, Latex

**Tools and frameworks:** IntelliJ Idea, Eclipse, Google Colab, Jupyter Notebook, Docker, WordPress, Mainframe's DB, Hadoop, Agile development

**Soft Skills:** Communication, Team player, Time management, Adaptable, Inter-personal relationship, Leadership

## Journals

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### A survey of face detection algorithms

**Jan 2017**

*International Conference on Inventive Systems and Control ICISC*

*Pune, India*

## Leadership

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### Virginia Tech Graduate School

**September 2021 – Present**

*Graduate Student Ambassador*

*Blacksburg, VA*

- Work with Office of Recruitment, Diversity, and Inclusion to provide information and resources to Graduate students.
- Mentor new students and equip them with resources available at Graduate School to make their transition smooth.