RAHIL SHARMA

officialthingsrahil@gmail.com | +31615485018| www.linkedin.com/in/rahil-sharma-ba5b6718b| https://github.com/rahil1303| Amsterdam, Netherlands

EDUCATION

Vrije Universiteit Amsterdam (VU), *Amsterdam, NL (Dual Enrollment)*
Master of Science (M.Sc.) in Computer Science (Big Data Engineering)   *Sept 2024 – Jul 2026*
Coursework: Algorithmic Game Theory, Parallel Programming for Large Scale Systems, Software Asset Management, Security and Machine Learning, Distributed Systems, Web Data Processing Systems, Data Mining Techniques

University of Amsterdam (UvA), *Amsterdam, NL (Dual Enrollment)*
Master of Science (M.Sc.) in Computer Science (Big Data Engineering)   *Sept 2024 – Jul 2026*
Coursework: Algorithmic Game Theory, Parallel Programming for Large Scale Systems, Software Asset Management, Security and Machine Learning, Distributed Systems, Web Data Processing Systems, Data Mining Techniques

International Institute of Information Technology, *Bangalore, Karnataka, IN*
Executive PG Program in Software Development with Specialization in Full Stack Development   *Aug 2022 – Oct 2023*
Coursework: Object Oriented Programming, Data Structures and Algorithms, User Interface and Front-End Development, Backend Development, Software Deployment, System Analysis and Design
GPA: 3.3/4

Symbiosis Institute of Technology, *Symbiosis International University, Pune, Maharashtra, IN*
Bachelor of Technology (B. Tech), Electronics and Telecommunication Engineering   *Aug 2018 – Jun 2022*
Coursework: Control Systems, Digital Electronics, Artificial Intelligence, Machine Learning, Communication Networks, Data Science, Deep Learning, Computer Architecture, Wireless Communication, Antennas and Wave Propagation
Percentage: 74%

WORK EXPERIENCE

Precisely – US Based MNC, *Mumbai, IN*
Software Support Engineer I: Data Integration   *Jan 2022 – Aug 2024*

- Specialized in **Big Data** with a focus on seamless upgrades and personalized user support, optimizing customer experiences across Public Cloud platforms (Azure, AWS, GCP) and providing robust IaaS client support.
- Conducted thorough **Root Cause Analysis** to identify and resolve complex data issues, ensuring minimal downtime and maintaining system integrity.
- Led efforts to resolve critical production incidents, achieving leading **Mean Time to Resolution (MTTR)** and ensuring the highest levels of service continuity.
- Utilized advanced **data analysis** techniques to generate actionable insights, driving continuous improvement and enhancing system performance.
- Managed **cluster setups** and **HDFS** configurations, ensuring efficient data storage, processing, and accessibility across distributed systems.
- Extensive experience with a wide range of technologies, including database management software (MS-SQL Server, Oracle) and Mainframe technology software (e.g., IBMI AS-400), coupled with continuous training to address evolving client requirements effectively.
- Focused on **personal and team upskilling** by conducting knowledge transfer sessions, ensuring the team stays updated with the latest technologies and best practices.
- Consistently delivered top-tier **Customer Satisfaction (CSAT),** maintaining excellent communication channels and securing high CSAT scores by promptly addressing client issues.
- Received multiple accolades such as **Spot Awards, Stellar Performer Award, Round of Applause Award, and Joy Giver Award**, reflecting exceptional performance and contributions.
- Played a pivotal role in fostering a **collaborative** team environment, mentoring junior engineers, and contributing to team success through effective leadership and knowledge sharing.

Fornax Private Limited, *Mumbai, IN*
Data Engineer Intern   *Jun 2021 – Sep 2021*

- Gained hands-on experience with concepts such as **Big Data Analytics and Modern Business Intelligence.**
- Responsible for operations involving **Azure and AWS Data operations and Data migration**.
- Constructed various ELT and ETL data pipelines for **data warehousing and utilization of various cloud technologies.**
- Designed and linked Data Pipelines for **Big Data scalability.**
- Successfully completed **5 Projects in the duration of 2 months** revolving around Cloud Computing using Microsoft Azure Services.
- Was Awarded the **Outstanding Performer Award** in the field of Azure Cloud Computing for an efficient and sincerity towards work throughout the Internship.

Symbiosis Centre for Applied Artificial Intelligence (SCAAI), *Pune, IN*

Student Research Assistant: AI Lab (Medical Image Analysis) *Aug 2020 – May 2021*

- Conducted in-depth research on **Medical Image Analysis**, focusing on the application of AI and machine learning techniques in disease detection at the Symbiosis Centre for Applied Artificial Intelligence (SCAAI).
- Developed and tested **AI-driven models** for diagnosing multiple diseases, improving accuracy in medical imaging.
- Authored two research publications under the mentorship of the **College Dean, Dr. Ketan Kotecha**, and the **Head of the AI Department, Dr. Jayant Jagtap**: one focused on disease detection through digital image processing in *Library Philosophy and Practical Journal*, and the other on healthcare and machine learning in the *International Journal For Research in Applied Science and Engineering Technology*.
- Presented research findings at national conferences and contributed to peer-reviewed journals.

TECHNOLOGICAL SKILLS

Programming: JavaScript, NodeJS, Java, Python, MATLAB, SQL, R programming
Data Science: Pandas, Confluent Kafka, NumPy, Matplotlib, BeautifulSoup, Seaborn
Machine Learning Libraries: SciPy, PyTorch, Theano, Keras, Scikit-Learn, TensorFlow, NLTK, OpenCV
Cloud Technologies: Snowflake, Microsoft Azure, AWS Lambda, Databricks, IBM Watson Cloud, Kafka, Google Cloud
Frameworks and API's: Material UI, Django, Bootstrap, Stitch, Docker, Avro Schema Registry
Version Control System (VCS): Git, GitHub, GitLab, BitBucket
Methodologies: Waterfall, Agile
Functional Skills: Communication, Organization Management, Research & Exploration, Information Management
Relevant Statistics, Calculus, Probability and Database Management Knowledge

CAPSTONE PROJECTS

Medicus The Smart Care Assistant for Healthcare

- Developed and build a **predictive chatbot enabled digital assistant**, backed by data, that can help surgeons, patients, and care taker teams throughout the patient journey by automating some of the crucial tasks done manually such as decision making, post-surgery planning, tracking and estimating recovery-time, and takes patients' feedback.
- **This was an award-winning project in the AGBI Hackathon. Organized by the Great Lakes Institute of Management and Sponsored by NITI Aayog (Government of India) and Mehta's Group of Hospitals.**

CostCloud: An AI-Enhanced Cloud Resource Analysis and Cost Comparison Framework

- This project is currently in development, is planned to be built using Python and Java, with the robust Django framework serving as the backbone.
- Tackling a real-world problem corporates face with their cloud spending going over the roof, this project harnesses the power of AI with libraries such as TensorFlow and Scikit-learn, enabling intelligent cloud resource analysis, cost comparison, and recommendation generation for optimal cloud spending. A very strong emphasis will be given to ease of usability and predictive analysis to the user's needs.

Applications of Disease Detection using Digital Image Processing Techniques (Publication)

Advisor Dr. Jayant Jagtap

- Paper Published under **Library Philosophy and Practical Journal by the University of Nebraska-Lincoln.**
- Shortlisted for the Top 5 projects in the Youth Zest Virtual Project Contest organized by the Indian Institute of Project Technology (IIPT).
- The title of this paper was Applications of Disease Detection using Digital Image Processing Techniques which involved a study of concepts such as Neural Networks and the machine learning algorithms related to it. The paper also discussed the idea of a disease prediction model based on 3 different diseases and their application in the Medical Field.

A Novel Approach towards Healthcare using Identity Access Management and Machine Learning (Publication)

- Presented a digital healthcare platform leveraging Identity Access Management and Machine Learning, addressing healthcare challenges by automating critical processes, enabling smart disease detection, and enhancing doctor-patient collaboration.
- Paper Published under **International Journal For Research in Applied Science and Engineering Technology.**
- **Shortlisted and qualified for Top 2 in the Techbharat National Level Hackathon. Organized by Government of Karnataka & BMS College of Engineering and Sponsored by** Ministry of Human Resource Development, Ministry of Education, and All India Innovation Council of India.

Yelp-inspired and Netflix-inspired Full Stack web applications

- Utilized JavaScript, CSS, React (front end), and Java (back end).
- Conducted thorough API testing using Postman. Enhanced user experience and interaction for the platform.
- This project was part of the Capstone Project Executive PG Program in Software Development at IIIT Bangalore. Applied concepts of design patterns and system analysis techniques.

Intelligent Video Segmentation Using Machine Learning

- Utilized OpenCV for detecting significant scene changes within video frames, allowing the system to identify and mark transitions between different parts of the video.
- Leveraged basic **Natural Language Processing** (NLP) techniques to analyze audio transcripts generated from video content. The system identifies key topics and themes, which are used to label and categorize video segments.

- Implemented a simple classification system that labels video segments based on identified keywords and topics. The initial classification was assisted by manual labeling to improve accuracy.
- Developed a basic web interface using Django that allows users to upload videos, view segmented parts with associated timestamps, and navigate directly to the sections of interest.

INVITED TALKS

- **Entrepreneurial Mindset and the Economics of Development**
  Organized by the Great Lakes Institute of Management, Chennai, IN   *July 2022*
- **Role of an Entrepreneur towards Innovation**
  Atal Great Lakes Balachandran Incubator, Pune, IN   *Jan 2022*

PROFESSIONAL CERTIFICATIONS

1. Snowflake SnowPro COF-CO2 for Data Engineers (**Certification of Merit by Snowflake**)
2. Microsoft Azure Fundamentals AZ-900 Licenced Certification (**Certification of Merit by Microsoft**)
3. Applied Data Science Specialization (Certification by **IBM|Coursera**)
4. Databricks Lakehouse Data Engineer Associate (**Certification of Merit by Databricks**)
5. Amazon Web Services Solutions Architect Associate (**Certification by Udemy**)

ACHIEVEMENTS

1. Participated and won in the **Hacker Earth's AGBI Health tech grand challenge Hackathon** sponsored by NITI Aayog and Atal Innovation council out of around 1500+ teams.
2. Awarded the **Outstanding Performer Award** for my performance during the Internship by FORNAX INC and Microsoft Technology Awards.
3. Received Honorable Mention and ranked in the **Top 5 teams of Youth Zest Virtual Contest out of 1000 teams** organized by the **Indian Institute of Project Technology (IIPT).**
4. Qualified for the **Top 2 teams in the Techbharat National Level Hackathon** organized by BMS College of Engineering and Government of Karnataka sponsored by Ministry of Human Resource Development, Ministry of Education and All India Innovation Council.
5. Participated and Qualified in the Top 15 teams in the **Innerve 5.0 one of the biggest National Level Hackathon Event organized by HASHMAP, ACCORPS and DEVFOLIO.**
6. **Bronze Medalist** in the International French Language Olympiad organized by the French Embassy of India.
7. Applied Data Science Specialization (authorized by **IBM**)
8. Represented College in the **Communique International Telecom Seminar**. The annual fest of Symbiosis Institute of Telecom Management. It explored whether the present ecosystem is resilient enough to sustain developments or the converging telecom tumultuous will topple the ICT domain. Imminent speakers from COAI, Oracle, Yes Bank, Accenture etc. graced the event and shared their rich experiences during panel discussions and keynote sessions.
9. Selected to represent India and my College as a Delegate in the **Conference of Harvard Project for Asian and International Relations (HPAIR).** Networked and took active participation in all keynote sessions surrounding Leadership, Healthcare, and Social Causes.
10. **Finalists in the ZS Campus Beats Case Challenge organized by ZS Associates**. Selected as the Top 100 teams selected among 4000+ teams participated from various colleges all over India.

CO-CURRICULAR AWARDS AND POSITIONS OF RESPONSIBILITY

1. Founder of ANR Medicus Technologies Private Limited, a Healthcare technology company which aims at making healthcare more accessible and affordable through technology.
2. Received a Diploma in French A1 Level Delf Exam, *Alliance Francaise, Awarded by Ministry of Education France*
3. Bronze Medalist, *National Cyber Olympiad, Science Olympiad Foundation, State Rank Holder*.
4. Project Lead for a group of 25 student interns for the Major Project Task, *also managed to complete the entire project before deadline during the internship at Fornax INC, Mumbai.*
5. Core Committee Member of Events committee in "Techchela", *the annual Tech fest of SIT.*
6. Core Committee Member of Logistics and Hospitality committee in "Reverb", *the annual cultural fest of SIT.*
7. Represented E&TC department in the Cricket and Volleyball team for two years in "PROTA", *the annual sports fest of SIT.*
8. Represented E&TC department in "Arambh", *the annual cultural fest of SIU.*
9. Winner of *"Best Delegate Award"* at the *Model United Nations* (MUN) organized by *Meridian School*.
10. Recipient of *"Best Fresher Award"*, at Meridian School 2018