

Aditya Rishi Sehgal

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EDUCATION

Master of Science, Computer Science | Rutgers University, New Jersey | **GPA – 3.75/4** **Sept 2022 - Present**
Bachelor of Technology, Computer Engineering | Mumbai University, India | **GPA – 3.8/4** **Jun 2017 - Jun 2021**
Relevant Courses: Data Structures & Algorithms, Web Technologies, Database Management Systems, Machine Learning.

SKILLS

Programming Languages: Python, Java, HTML5, CSS3, JavaScript, R.
Frameworks / Libraries: React.js, Redux, Flask, Spring Boot, Angular.js, PHP, NumPy, pandas, Node.js, OpenCV.
Databases and Visualization: MySQL, MongoDB, CosmosDB, PostgreSQL, matplotlib.
Additional Skills: ChatGPT, Git, Azure Cognitive Search, Web-Scraping, Rest APIs, GraphQL, Digital Ocean.
Certifications: Front-End Web Development with React (Coursera), SQL for Data Science (Coursera). [\[Certificates\]](#)

WORK EXPERIENCE

Department of Computer Science-Rutgers University, New Jersey **Jun 2023 - Present**

Software Engineer Intern | (Python, Flask, JavaScript, R, pandas, Rest APIs, ChatGPT, Digital Ocean)

- Managed and took charge of hosting the online interactive textbook for the course “Data-101” on Digital Ocean.
- Developed a web application for “Data - 101” to read an input dataset and auto-generate 1000s of rows of ‘R’ coding questions, answers, and accompanying template-based code for 5+ templates, guiding understanding of statistics.
- Designed a random question roulette feature with hints for answer code, that can run in an in-browser ‘R’ coding environment, enhancing the data science learning and practicing experience for 200+ students. [\[tinyurl.com/data-101-QA\]](https://tinyurl.com/data-101-QA)

Accenture Solutions Private Limited, India

Jun 2021 - Jun 2022

Full Stack Engineering Analyst | (Angular.js, JavaScript, Java, Spring Boot, Azure Cognitive Search, CosmosDB)

- Optimized the Front-end web user experience for a health-care-based client by using streamlined complete and partial search input filters, resulting in an enhanced member record search process and improved efficiency.
- Implemented features enabling users to select specific member records and effortlessly print attestations through a user-friendly selection-based table component.
- Collaborated on developing a Spring Boot back-end, leveraging the power of Azure Cognitive Search, resulting in performance improvements and more efficient querying of the CosmosDB database.
- Managed migration of 5,000+ member records from paper-based to PDF attestations making use of the web interface resulting in significant cost savings and environmental benefits.
- Voted the "Best New Employee" out of a team of 15+ employees for having good client relations and client-handling skills.

PROJECTS

English Premier League (EPL) Guru | Web-Scraping | (python, pandas, numpy, BeautifulSoup, Flask) **Jun 2023 - Aug 2023**

- Wrote a script to scrape a football website, leveraging BeautifulSoup, to get stats for the past 3 EPL seasons for each year's 20 EPL teams, including player-specific stats, by automatically navigating to previous seasons and player pages.
- Built a front-end to read information from the script pipeline and display graphs and filters to perform exploratory analysis, resulting in a better experience of viewing premier league stats and identifying trends. [\[Repository\]](#)

Technical Resume Builder | Web Development | (HTML, CSS, Javascript, jsPDF)

Jun 2022 - Sept 2022

- Developed a user-friendly website aimed at simplifying the creation of professional technical resumes, resulting in reduced average time spent on resume creation from 2+ hours to minutes.
- Implemented a streamlined form that takes section-wise user inputs and utilizes the jsPDF library to produce visually appealing and well-formatted PDF resumes providing consistent formatting across the entire resume. [\[Hosted Website\]](#)

CareNet | Web Development | (React.js, flask, MongoDB, HTML5, CSS3, pandas, Tensorflow)

Nov 2020 - May 2021

- Coded a React.js & Flask web application aimed at early detection of Diabetes and Pneumonia utilizing machine learning and deep learning techniques.
- Coordinated and built a health score feature, allowing patients to receive personalized health parameter scores, ranging from 0 to 100, based on crucial factors such as height, BMI, sleep patterns, glucose levels, etc.
- Created a recommendation engine to provide patients with actionable suggestions to improve health parameters and bring suggested parameters within the recommended range, resulting in healthier lifestyles. [\[Repository\]](#)

Voice based Doctor's Prescription | Web Development | (HTML, CSS, Javascript, python, Virtru)

Feb 2021 - Mar 2021

- Led a 5 member team to create an intuitive web user interface allowing doctors to generate a prescription by having natural conversations with patients, resulting in a 50% reduction in prescription generation time compared to traditional methods.
- Leveraged NLP algorithms to capture and record specific parts of speech based on targeted keywords.
- Accomplished robust security measures, through Virtru email encryption, safeguarding patient data and ensuring HIPAA compliance and confidential prescription delivery via email. [\[Repository\]](#)