

# Sanchay Kanade

2424 S 9<sup>th</sup> St, St. Louis, MO | [sanchay.kanade@rutgers.edu](mailto:sanchay.kanade@rutgers.edu) | [www.linkedin.com/in/sanchaykanade](https://www.linkedin.com/in/sanchaykanade) | 6097211671

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## EDUCATION:

**Master of Science Computer Science** | Rutgers University, New Brunswick | **3.91/4 GPA**

Sept 2022 – May 2024

Relevant Courses: DSA, OS Design, DBMS, ML, Design of Internet Services

**B.Tech in ECE** | Maulana Azad National Institute of Technology, Bhopal | **8.34/10 GPA**

Apr 2016 – Jul 2020

Relevant Courses: Programming Language, Data Structure Algorithms, Computer Network, Computer Vision

## TECHNICAL SKILLS:

**Languages:** Python, SQL, PL/SQL, Java, JavaScript, HTML, CSS, TypeScript, Node.js, Terraform, REST API, R, C/C++, Perl

**Framework:** React.js, Django REST Framework, Sequelize ORM, EFcore

**Database:** Postgres, Oracle Database, Snowflake, MongoDB, DynamoDB, RDS

**Tools:** AWS, Azure Databricks, Anaplan, OCI, CI/CD, NumPy, Pandas, Git, Docker, Kubernetes, Jenkins, VScode, JUnit

## PROFESSIONAL EXPERIENCE:

**Anheuser-Busch, Saint Louis** **Software Engineer**

July 2024 – Present

Mentor: Chistopher Stone, Mohit Nayar

### Federal Alcoholic Tax Records

- **Snowflake to Postgres Data Load**

Developed a data pipeline by using stored procedures in Snowflake, ETL jobs and workflow in Databricks to populate tables automatically in Postgres.

- Developed EF Core ORM entities for the backend for Postgres Tables.
- Created React front end to display tax forms.

### RADAR(Financial Planning and Analysis Product)

- Created ETL and Workflow Orchestration to populate Unity Catalog in Databricks with Anaplan history and action data.
- **Medallion 3.0**

Created Medallion 3.0 library to easily deploy and enforce Medallion Architecture in all ETL Pipelines. Updated existing ETLs to use Medallion library instead of UC which improved product QSI by 20%

**Wyndham Hotels and Resorts, Parsippany** **Cloud Data Engineering Intern**

June 2023 – Aug 2023

Mentor: Kelly Kimbal, Kiran Vemulapalli

- **AI Virtual Assistant**

Designed an AI virtual assistant to increase sales and reservations on Wyndham hotel booking website using ChatGPT

- **AWS Management using IaC**

Automated AWS Roles and Policy Management using Terraform script and helped in cloud migration. Aim was to create multi region A-Z (Jenkins, CI/CD)

- **Automating updating AWS WAF IP sets with AWS IP Ranges**

Created a Lambda function to automatically update AWS WAF IP sets with AWS IP Ranges.

- **Loyalty Data Analysis**

Performed data analysis on loyalty data using AWS Glue, ETL and Athena.

**Rutgers University, New Brunswick** **Teaching Assistant (Java, Python)**

Oct 2022 – May 2024

Mentor: Prof. Eiman Ahmed, Prof. Sesh Venugopal, Prof. John Blackmore

- Teaching assistant for courses OOPs in Python, Software Methodology (Java, Spring MVC, Android)

**Oracle, Bengaluru** **Software Developer**

Sept 2020 – Jul 2022

Mentor: Manoj Sahoo, Archana Singh

- **LOB and Text Index Development and Performance Analysis**

Developed and analysed impact of Large Object and Oracle Text Index features on performance of Oracle database and improved code for resolution of performance bugs resulting in 20x improvement. (Java, C++, SQL)

- **Oracle Text DML Performance and API Enhancements**

Experimented, tested and analysed impact of enhancing DML operations by using background jobs to sync text indices, on the performance of Oracle database resulting in 10x performance optimization. (Java, SQL)

- **Web Application Development**

Developed application for performance regression analysis and filing bugs using Node.js and Oracle APEX.

- **Testing Automation**

Automated entire testing process for LOB and Text Index by creating an automatic mailing system.

- **ML Dashboard:** Gather Data from IOT based device, push it to DynamoDB and create React front end for analysis.

**INDEPENDENT PROJECTS:**

- **Fovus Coding Challenge**, Fovus, Arizona Mar 2024 – Apr 2024  
Pushing data to S3, and Dynamo DB via API gateway and Lambda, triggering EC2 via DB event to create new objects through React frontend.
- **ScarletElectronics**, Rutgers University, New Brunswick Sept 2023 – Dec 2023  
Designed customer support module for E-Commerce website with AI assistant using Node.js, Sequelize and Full-Stack.
- **BuyMe**, Rutgers University, New Brunswick Feb 2023 – May 2023  
Designed and implement a relational web-based online auction system using Full-Stack and React frontend.
- **CaseGuard Web development Challenge** Apr 2024 – Apr 2024  
Developed a Wordpress website using custom code and PHP backend.
- **Space Technology Association at Rutgers**, Rutgers University, New Brunswick Dec 2022 – Aug 2023  
Designed codes for camera module and pressure sensor for Rutgers's nano satellite.
- **Watch Party Web Application**, Rutgers University, New Brunswick Apr 2023 – May 2023  
Created a Web Application, where 100 users can host watch party using Node.js, Google Cloud and Heroku.

**CERTIFICATIONS:**

- AWS Certified Cloud Practitioner
- Anaplan Level 2