

Vismay Vilas Chaudhari

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Education

Rochester Institute of Technology

Master of Science in Computer Science

Expected Dec 2025

Rochester, NY

- Relevant Coursework: Adv. Data Structures and Algorithms, Adv OO Programming Concepts, Computational Problem Solving (Python), Machine Learning, Distributed Systems, Data Security & Privacy, Artificial Intelligence.

Experience

Software Engineering Co-op

Ecolab

Aug 2024 – Aug 2025

St. Paul, MN

- Engineered Snowflake ETL pipelines processing 50M+ data points across 100+ countries, reducing manual reporting time by 40%.
- Implemented Great Expectations data quality framework with 30+ validation rules for global product data, achieving 99.7% data accuracy across production systems.
- Implemented AppDynamics monitoring integration for pipeline health checks, enabling proactive notification system for 20+ production data workflows.
- Automated Snowflake ingestion workflows using Azure DevOps CI/CD with parameterized templates, improving deployment consistency by 85% across environments.
- Revived hybrid recommendation engine using Apriori, K-means, and SVD algorithms for SKU optimization, increasing cross-sell opportunities across customer segments.
- Created production-grade C# (.NET) APIs to serve usage and performance metrics for 2M+ customers, powering Angular dashboards used by sales and service teams.

Software Engineer

Oct 2020 – Jul 2022

Tata Consultancy Services

Mumbai, India

- Developed .NET APIs processing high-volume trade data with ActiveMQ message routing through compliance validation workflows, supporting real-time trade settlement operations.
- Automated trade validation workflows using VBScript and UFT test frameworks, eliminating 70% of manual review processes for daily trade operations.
- Optimized SQL Server queries for analyzing 50K+ daily trade records and message consistency checks.

Projects

BugBlamer - CI/CD Debugging Assistant | FastAPI, Docker, GitLab API, GCP, LLaMA3

- Developed a tool to detect faulty commits by analyzing Git diffs and CI logs using an LLM-powered ranking system
- Built and deployed a FastAPI backend with GitLab API integration using Docker and Google Cloud Run
- Designed a modular log ingestion pipeline with fallback support to accommodate multiple CI environments

CloudMart - Multicloud E-commerce Platform | AWS (EC2, EKS, ECR, DynamoDB, Lambda), Google BigQuery, Terraform

- Built full-stack e-commerce platform with Flask REST APIs and React frontend, supporting product browsing, cart management, and secure checkout workflows.
- Deployed microservices on AWS Lambda and integrated GCP BigQuery for analytics, achieving serverless scalability and cross-cloud data insights.
- Integrated Amazon Bedrock for smart product suggestions and OpenAI API live customer support chat.

Serverless Function Platform | Python, Django, Docker, Kubernetes, GitLab CI

- Engineered a web-based Python code runner that executes user scripts as Kubernetes jobs (37ms–3.5s latency).
- Containerized runs using Docker and managed job execution with ConfigMaps and K8s Jobs API.
- Automated deployment using GitLab CI and tracked CPU and memory usage for each run to support quota and billing features in future iterations

Memoir | Django, React, TypeScript, Amazon RDS, AWS Lambda

- Implemented a blogging platform with markdown editor, preview feature and image uploads using React frontend.
- Designed Django APIs for posts, comments, and file uploads, used by the frontend for editing and publishing.
- Configured AWS Lambda to resize and compress images on upload, reducing average page load time by 25%.

Technical Skills

Languages: Python, SQL, Java, C#, JavaScript, TypeScript, HTML, CSS

Frameworks & Libraries: FastAPI, Django, React, .NET, TensorFlow, OpenCV, Pandas, Numpy, Scikit-learn

Cloud & Infra: AWS (Lambda, EC2, S3), GCP (Cloud Run, BigQuery), Docker, Kubernetes, Terraform, Azure DevOps

Databases: Snowflake, PostgreSQL, DynamoDB, SQL Server, MongoDB

AI & Tools: LLM APIs (OpenAI, Bedrock), LangChain, Hugging Face, Polars

Tooling & Platforms: Git, GitHub, Postman, JIRA, REST APIs, Streamlit, VSCode, Cursor