Vismay Vilas Chaudhari

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Education

Rochester Institute of Technology   Expected Aug 2025
Master of Science in Computer Science (GPA: 3.56 / 4.00)   *Rochester, NY*
- **Relevant Coursework:** Adv. Data Structures and Algorithms, Adv OO Programming Concepts (Java), Computational Problem Solving (Python), Big Data Analytics, Distributed Systems

Experience

Software Engineering Co-op   Aug 2024 – Aug 2025
Ecolab   *St. Paul, MN*
- Built C# (.NET) APIs to surface usage metrics for 2M+ customers, powering sales dashboards for tracking adoption and value delivery.
- Connected Angular frontend with backend services to display real-time engagement data across global accounts.
- Designed a recommendation engine using Apriori and SVD to improve product bundle suggestions for 2M+ customers.
- Transformed 50M+ sales records from Snowflake into API responses for TVD (Total Value Delivered) insights.
- Wrote 10+ Playwright tests to validate UI-API flows and ensure stability during frontend deployments.

Software Engineer   Oct 2020 – Jul 2022
Tata Consultancy Services   *Mumbai, India*
- Developed .NET-based components for processing trade messages and routing them through ActiveMQ queues to downstream systems.
- Contributed to migration efforts from TIBCO to ActiveMQ, focusing on message transformation logic and routing performance.
- Created VBScript validation modules within UFT to automate compliance checks across multiple trading workflows.
- Investigated message integrity using SQL Server, resolving data inconsistencies in over 50,000 trade records.

Projects

BugBlamer – CI/CD Debugging Assistant | *FastAPI, Docker, GitLab API, GCP*
- Created a tool to detect faulty commits by parsing CI logs and Git diffs using LLaMA-based models hosted on Groq.
- Built a FastAPI backend integrated with GitLab API for secure access and deployed via Docker and Cloud Run.
- Implemented fallback log ingestion and modular components to support multiple CI systems.

CloudMart – Multicloud E-commerce Platform | *React, Flask, AWS, GCP, OpenAI API*
- Built a fullstack e-commerce platform with Flask APIs for backend logic and React frontend for product browsing and checkout.
- Deployed backend services on AWS Lambda and GCP BigQuery to support multicloud analytics and scalability.
- Integrated OpenAI and Claude 3 APIs for smart product suggestions and live customer support chat.

Serverless Function Platform | *Python, Django, Docker, Kubernetes*
- 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 logged resource usage (CPU, memory) via `psutil`.

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, C#, Java, JavaScript, TypeScript, SQL, C++, R
Frameworks & Libraries: .NET, Angular, React, Django, Flask, FastAPI, PySpark, Pandas, NumPy, Scikit-learn, TensorFlow
Databases: Snowflake, PostgreSQL, SQL Server, MongoDB, MySQL, Redis
DevOps & Tools: Git, Docker, Azure DevOps, Jenkins, Kubernetes, Terraform, GitLab CI, Postman, JIRA, VSCode
Cloud Platforms: Azure, AWS, GCP
Testing & Reporting: Playwright, UFT, Great Expectations, PowerBI, Streamlit