Vismay Vilas Chaudhari

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EDUCATION

Rochester Institute of Technology — Rochester, NY
Master of Science in Computer Science, Minor in Big Data (GPA: 3.56/4.0) — *Aug 2022 – Aug 2025*

University of Mumbai — Mumbai, India
Bachelor of Science in Information Technology — *Jul 2016 – Oct 2020*

EXPERIENCE

Software Engineering Co-op — Aug 2024 – Present
Ecolab — *St. Paul, MN*

- Developed business and customer-facing dashboards using C# (.NET), Angular, and Snowflake, enabling real-time tracking of global product metrics and supporting data-driven decisions.
- Designed backend services in .NET with REST APIs, ensuring consistent data flow and reducing integration errors across multiple Angular-based dashboards.
- Collaborated with cross-functional teams in an Agile environment to deliver UI enhancements and ensure seamless feature deployment across global platforms.
- Optimized complex Snowflake queries used in frontend visualizations, reducing execution time by 30% and enhancing dashboard performance.
- Contributed to data engineering efforts by automating ETL workflows using Python, PySpark, and Azure Blob, transforming unstructured data into Snowflake tables to support analytics initiatives.

Software Engineer — Oct 2020 – Jul 2022
Tata Consultancy Services — *Mumbai, India*

- Optimized SQL Server queries, cutting execution time by 25% for high-volume financial transactions.
- Streamlined financial trade validations by automating legacy scripts, minimizing manual QA by 30% and improving consistency across audit processes.
- Created end-to-end test cases and QA automation suites using UFT and VBScript, increasing test coverage and reducing manual verification cycles.
- Executed unit testing frameworks, leading to a 40% reduction in production defects and strengthening data integrity across financial applications.

PROJECTS

CodeCue – Smart LeetCode Assistant | *React, Node.js, TypeScript, Express, Groq API* — Mar 2025 – Present

- Engineered a Chrome extension that delivers contextual hints and Python solutions using Llama3 via Groq API.
- Secured backend with Node.js and Express on Vercel to safeguard API keys and manage request routing.
- Crafted SPA-aware scripts and structured prompt flows to extract and interpret LeetCode problem metadata.

CloudMart | *AWS (EKS, ECR, Lambda), Azure, GCP BigQuery, OpenAI, React, Flask* — Jan 2025 – Feb 2025

- Shipped a multi-cloud eCommerce platform with Flask APIs deployed on AWS Lambda and GCP BigQuery for backend workflows and analytics.
- Connected Claude 3 (via Bedrock) and OpenAI API to provide product suggestions and customer query handling.
- Applied Azure Text Analytics to analyze product reviews and derive actionable feedback insights.

Memoir | *Django, React (TypeScript), PostgreSQL, AWS (EC2, RDS, S3, Lambda)* — Dec 2023 – Jan 2024

- Shipped a content rich blogging platform with user authentication, role-based access, and interactive post features.
- Designed REST APIs for content and user management to ensure a smooth multi-device experience.
- Used AWS Lambda to process media assets, improving image load time by 25%.

Sign Language Virtual Assistant | *Python, TensorFlow, OpenCV* — Aug 2019 – Apr 2020

- Trained a CNN model to interpret ASL gestures into voice commands, achieving 90% accuracy.
- Processed a dataset of 5,000+ labeled gestures and implemented real-time recognition pipelines using OpenCV.
- Integrated text-to-speech and speech-to-text modules for smooth bidirectional communication.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C#, SQL, NoSQL, HTML, CSS
Databases: PostgreSQL, Snowflake, Redis, DynamoDB, MongoDB, Firebase, SQLite, MySQL
Frameworks & Libraries: ReactJS, NodeJS, Django, Flask, .NET, PySpark, Tensorflow, PyTorch, Tailwind CSS
Developer Tools: Git, Docker, Terraform, Kubernetes, Azure DevOps, Jira, CI/CD Pipelines, UFT
Cloud & Platforms: AWS (EC2, S3, RDS, Lambda, EKS, Bedrock, CodePipeline), Azure Blob, GCP