Vismay Vilas Chaudhari

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Work Experience:

Ecolab St. Paul, MN

Software Engineering Aug 2024 – **Present**

- Streamlined data pipeline performance by reducing data validation time by 30% through the application of **Python and PySpark**, ensuring seamless data flow and efficient management within **Snowflake and Azure** environments.
- Built full-stack applications, including front-end dashboards and **back-end APIs** with **Streamlit and Flask**, enabling real-time insights and interactive reporting for internal stakeholders.
- Collaborated with cross-functional teams, embedding machine learning models to allow data-driven decision-making and optimize business workflows.

TATA Consultancy Services Mumbai, India

Assistant System Engineer Oct 2020 – Jul 2022

- Spearheaded **automation initiatives** within the team by creating and deploying **VBScript** and **SQL automation scripts**, simplifying workflows and minimizing manual intervention.
- Enhanced **SQL Server** and **MySQL** performance by 25% through fine-tuned queries, improving system efficiency and data accuracy.
- Employed **Git** for version control and implemented automated deployment pipelines, ensuring smooth delivery and integration of solutions.

Projects:

Valorant Strategy AI Chatbot (Riot X AWS Hackathon) Sep 2024 – Oct 2024

Techstack: AWS (Bedrock, OpenSearch, S3), Streamlit, Selenium, Python

- Developed an **AI-powered chatbot** tailored for Valorant, leveraging **AWS Bedrock and OpenSearch** to provide real-time, data-driven team composition recommendations and player insights.
- Integrated **Selenium** for **automated data scraping**, ensuring the bot stays updated with the latest player statistics and game information.
- Designed an **interactive interface with Streamlit**, enabling users to explore strategies, role assignments, and map-specific team recommendations.

Serverless Function Development Platform Jan 2024 – May 2024

Techstack: Python, Django, Kubernetes, Docker, Minikube.

- Developed a **cloud-based serverless function** editor and deployment platform, enhancing the serverless computing capabilities of **OpenStack** with a focus on user efficiency and integration.
- Implemented features include an **in-browser function editor**, automated **CI/CD pipelines**, and integration with **Kubernetes** for orchestrating containerized applications.
- Enhanced system monitoring and debugging capabilities through **function metrics reporting**, contributing to improved performance analysis.

Memoir: Blog Platform Dec 2023 - Jan 2024

Techstack: Django, React, PostgreSQL, AWS (EC2, RDS, S3, Lambda)

- Developed and deployed 'Memoir', a full-stack blog platform using **Django Rest Framework and React**, integrated with **PostgreSQL** for data management and **AWS (EC2, RDS, S3) for hosting** and storage solutions, achieving a seamless user experience and high system performance.
- Implemented advanced features such as user **authentication, content management**, and interactive blog functionalities, focusing on enhanced user engagement.
- Optimized **image resizing with AWS Lambda**, which minimized load times and optimized bandwidth usage, resulting in a smoother user experience across 5 different device formats without compromising quality.

Virtual Assistant with Sign Language using Deep Learning and TensorFlow Aug 2019 – Apr 2020

TechStack: Python, Tensorflow, and OpenCV.

- Created a **deep learning model** for **sign language recognition**, enabling deaf-mute individuals to interact with voice-activated virtual assistants by translating **gestures** into **real-time commands**.
- Trained the model with ASL data, utilizing **TensorFlow** and **OpenCV** for gesture recognition and real-time processing.
- Implemented **Text-to-Speech** and **Speech-to-Text** technologies to enable smooth interaction with virtual assistants.

Related Research: Published the research in the 2020 Second International Conference on Inventive Research in Computer Applications **(ICIRCA)**, **IEEE,** and **International Research Journal of Engineering and Technology**, Volume 07 Issue 03, March 2020.

Fitness Application Jul 2019 – Dec 2019

Techstack: Java, SQLite, XML, Android Studio

- Engineered an Android app for tracking workouts and managing schedules using **Java for backend logic** and **XML** for UI design.
- Implemented efficient local **storage** with **SQLite**, enhancing data retrieval speed and supporting **user progress tracking.**
- Integrated **dynamic multimedia features, allowing** seamless playback of instructional videos for an enriched user experience.

Skills:

Languages: Python, Java, C++, C#, JavaScript, HTML, CSS, PHP, R, SQL, NoSQL, VBScript.
Database: PostgreSQL, SQLite, MySQL, Cassandra, Oracle Database, Firebase, Snowflake.
Collaborative Tools: Git, Jira, Kanban, Azure-Devops.
Frameworks and Libraries: Django, Flask, Bootstrap, Next.js, PyTorch, ReactJS, Typescript, CUDA.
Other Tools: AWS, Kubernetes, Azure, OpenStack, Android Studio, Visual Studio, PyCharm, IntelliJ, MS Office, Eclipse, Conda.

Education:

Rochester Institute of Technology Rochester, New York

Pursuing Master of Science in Computer Science (GPA: 3.56) **Expected Graduation: May 2025**

Related Coursework: Data Structures & Algorithms, Artificial Intelligence, Machine Learning, Big Data Analytics, Distributed Systems, Data Security & Privacy, Cryptography, and Database System Implementation.

University of Mumbai Mumbai, India

Secured a Bachelor of Engineering in Information Technology (CGPA 7.97/10) Jul 2016 - Oct 2020

Related Coursework: Advanced Data Structures, Database Management Systems, Computer Networking, Artificial Intelligence, Business Intelligence.