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Work Experience

Ecolab

Software Engineer

St. Paul, MN

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 to refine recommendation models based on business feedback, ensuring alignment with requirements and optimizing workflows for data-driven decision-making.

Tata Consultancy Services

Assistant System Engineer

Mumbai, India

Oct 2020 – Jul 2022

- Spearheaded **automation initiatives** within the team by creating and deploying **VBScript** and **SQL automation scripts**, simplifying workflows and minimizing manual efforts.
- 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, Mar 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, DynamoDB.

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, NY

Pursuing Master of Science in Computer Science

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

Jul 2016 - Oct 2020

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