# Sourav Girish Walke

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## **Personal Profile**

A Cal State East Bay graduate student who is enrolled in the Computer Science program. Dedicated to software engineering, having three years of expertise, and specialising in full-stack web development. Searching mostly for Machine Learning, Data Engineer, and Python Development positions.

## **Education**

#### **California State University East Bay**

Hayward, USA

Master of Science in Computer Science

Aug 2022 - Current

- · Working as a Instructional Student Assistant at Student Center for Academic Achievement
- **GPA:** 3.67/4.0
- · Relevant Courses: Advanced Algorithms, Web Systems, Advanced Artificial Intelligence, Cybersecurity, System Design

#### Visvesvaraya Technological University

Belgaum, India

Aug 2015 - May 2019

Bachelor of Engineering in Computer Science

- · Graduated with Distinction
- **GPA:** 7.85/10.0
- Relevant Courses: Database Management Systems, Object Oriented Programming, Operating Systems, Machine Learning

## Work Experience \_\_

#### CrimsonLogic India Pvt Ltd

Bengaluru, India

Senior Software Engineer

July 2019 - July 2022

- Collaborated on the ideation, development, and launch of the Government of Saint Lucia's eServices Integrated Platform (DigiGov), resulting in a 50% increase in citizen engagement through a user-friendly and responsive UI.
- Utilized a full-stack approach to create a highly scalable, secure, and performant solution for DigiGov, working closely with stakeholders to gather requirements and implement improvements.
- Designed and implemented multiple complex application workflows, incorporating APIs and RESTful services, resulting in a 20% increase in system efficiency and a 15% reduction in user wait time.
- Conducted rigorous testing and debugging to identify and fix issues or bugs that could compromise the system's performance, security, or scalability thereby ensuring that DigiGov was highly scalable and secure.
- Technical Skills: Java, XML, Spring, Hibernate, Javascript, jQuery, Ajax, MySQL, Git, Azure DevOps
- Soft Skills: Teamwork, Time Management, Communication, Presentation skills.

# **University Projects**

#### RemedyBot: An Intelligent Chatbot for Self-Diagnosis and Home Remedies

Belgaum, India

Visvesvaraya Technological University

Aug 2018 - Apr 2019

- Developed a rule-based chatbot application using a Natural Language Processing (NLP) Engine to accurately detect and classify common human illnesses and recommend home remedies.
- Curated and preprocessed an extensive dataset from various sources, including medical journals and databases, to train the chatbot engine using techniques such as text mining, entity recognition, and sentiment analysis.
- Achieved an accuracy of 80% in detecting illnesses and providing appropriate remedies using NLP techniques such as tokenization, part-of-speech tagging, and dependency parsing.
- Technical Skills: Python, Natural Language Processing (NLP) techniques, data curation and preprocessing, machine learning.
- Soft Skills: Communication, Teamwork, Problem-solving, Presentation skills, Report writing.

#### **StudySphere: The Collaborative Learning Platform**

Belgaum, India

Visvesvaraya Technological University

Mar 2018 - May 2018

- Developed a web application that leverages a client-server architecture and RESTful APIs to facilitate real-time interaction between students and professors, with a focus on resource sharing.
- Translated the project requirements into ER (Entity-Relationship) diagrams, then designed and implemented a normalized database schema using SQL (Structured Query Language) to ensure data integrity and scalability.
- Employed various front-end technologies such as HTML, CSS, JavaScript, and React to design an intuitive user interface that is responsive and user-friendly.
- Technical Skills: HTML, CSS, JavaScript, React, Git, GitHub, ORM (Object-Relational Mapping), SQLAlchemy, Django ORM.
- Soft Skills: Attention to detail, Critical thinking, Adaptability, Logical Thinking.

March 16, 2023

Visvesvaraya Technological University

- Designed and developed a 2D game with a ball and multiple obstacles using OpenGL functions and Visual C++.
- Developed complex mouse and keyboard interactions to allow players to control the ball and interact with the obstacles.
- Integrated a sound system to enhance the player's experience and provide audio feedback for game events, such as collisions and successful completion of obstacles.
- Technical Skills: 2D game development, OpenGL functions, Visual C++, Collision detection.
- Soft Skills: Report writing, Logical Thinking, Critical Thinking.

## Skills\_\_\_\_

Programming Java, Python (Pandas, PyTorch, NumPy, Scikit-learn. etc.), HTML, CSS, JavaScript, React, SQL, Spring, Hibernate.

**Miscellaneous** Linux, Microsoft Office, Firebase, Git, Azure.

## Languages\_

**English** Professional proficiency **Hindi** Native proficiency

MARCH 16, 2023