

Sourav Shrikant Shetye

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EDUCATION:

The University of North Carolina at Charlotte, Charlotte, NC
Master of Science in Computer Science
Date of Completion: Dec 2024

Aug 2023 - Present

Vidyalankar Institute of Technology, Wadala, Mumbai, Maharashtra, India
Bachelor of Engineering in Computer Science

Jul 2017 - May 2021

Coursework: Structural Programming Approach, Object Oriented Programming, Machine Learning, Database Systems, Advance Algorithms, Operating System, Software Engineering, Data warehousing and Mining, Artificial Intelligence, Big Data and Analytics.

WORK EXPERIENCE:

Graduate Teaching Assistant, University of North Carolina Charlotte, USA.

Aug 2024 – Current

- Teaching assistant for the course “Web Development”.
- Orchestrated interactive learning experiences, leveraging innovative teaching techniques and resources to engage students and foster a collaborative environment, positively impacted student participation and enthusiasm for the subject matter.

Software Engineer - Tata Consultancy Services

Nov 2021 - Nov 2022

- Collaborated within a production support team for Westpac Bank Australia, leveraging industry-standard software such as JIRA, ServiceNow, Microsoft Visual Studio, and Microsoft SQL Server.
- Enhanced SQL query optimization and monitoring methodologies, yielding a 20% boost in error resolution efficiency and significant reductions in system downtime.
- Key contributor to Westpac Bank's website development and maintenance, specializing in front-end (JavaScript, React, HTML5, CSS) and backend (Java, NodeJS) development, resulting in increase of user engagement over six months.
- Implemented RESTful APIs for seamless communication between front-end and back-end components, reducing data transfer latency by 30% and improving overall system responsiveness.
- Conducted rigorous testing and debugging, resulting in a 30% increase in app stability which resulted in reduction of crash rates.
- Applied Git for version control and participated in collaborative development using GitHub.

ACADEMIC PROJECTS:

- Ecommerce Application using MERN:** **May 2024 - Jun 2024**
 - Developed a full-featured e-commerce platform using the MERN stack with secure authentication, password reset functionality, and role-based access (Admin/User).
 - Implemented key e-commerce functionalities, including add-to-cart, filters, similar product recommendations, and integrated a payment gateway for seamless transactions.
 - Built modular backend architecture with separate controllers for efficient management of product filtering, pagination, and user data handling. [LINK](#)
- Wave2Lip: Lip Syncing Real-Time Audio with Image:** **Jan 2024 – May 2024**
 - Integrated Wav2Lip project, utilizing PyAudio for audio processing, Flask for server-side implementation, and a sophisticated inference mechanism for real-time audio to lip movement conversion.
 - Implemented real-time lip-syncing inference, capturing audio using PyAudio while simultaneously processing image frames and generating synchronized lip movements based on the audio input. [LINK](#)
- Personal Budget Application using Angular:** **Nov 2023 - Dec 2023**
 - Created and deployed a single-page website on DigitalOcean for personal budget tracking. Utilized React, Node.js, and MongoDB showcasing advanced programming skills and creativity in website design.
 - Executed a comprehensive backend solution utilizing MongoDB as a robust NoSQL database to securely manage user data, leading to a 40% improvement in data accessibility and integrity. [LINK](#)

SKILLS:

- Languages:** C/C++, Java, Python, JavaScript, TypeScript.
- Web development:** AngularJS, React, CSS, Bootstrap, HTML5, PHP, NodeJS, Express.
- Libraries and Frameworks:** NumPy, TensorFlow, and Pandas, D3.js, Spring Boot, .NET, OkHttp.
- Databases:** MySQL, PostgreSQL, NoSQL, MongoDB.
- Tools and Platforms:** Android Studio, Docker, GitHub, Microsoft Studio, ServiceNow, Jira, AWS, Azure, Kubernetes.

EXTRACURRICULAR ACTIVITIES:

- Event coordinator:** Spearheaded the organization and execution of various CSI (Computer Society of India) technical events, fostering innovation and knowledge sharing within the community.
- Online Courses/Certificates:** Data Structures and Algorithms: Deep Dive using Java (Udemy), The complete JavaScript Course 2024: From Zero to Expert (Udemy), Oracle Database Management Course (Oracle), Machine Learning A-Z: AI, Python & R(Udemy).