

SAHIL SONI

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Technical Skills

- **Programming Languages:** C++, C#, TypeScript, Objective C, Java, JavaScript, Python, SQL
- **Frameworks:** Angular, React, Loopback4, ASP .NET
- **Databases:** PostgreSQL, MongoDB, MySQL, Redis
- **Developer Tools:** Postman, VS Code, Jira, Figma
- **Version Control:** Git and GitHub
- **Operating Systems:** UNIX, Linux, Windows, Android
- **Others:** System Design, Data Structure, Algorithms, OOPS, HTML, CSS, Agile, Scrum, SDLC, AWS

Education

Master of Applied Computing

September 2022 - Present

University of Windsor, Windsor, ON

- Available for a 4-8 month internship starting September 2023
- CGPA: 85.83/100

Bachelor of Computer Engineering

July 2017 - June 2021

Thapar Institute of Engineering and Technology, Patiala, India

- CGPA: 8.28/10

Professional Experience

Junior Software Engineer

July 2021 - August 2022

SourceFuse Technologies India Private Limited, India

- Developed an Angular-based project management system with implemented design patterns, enhancing code maintainability and extensibility, resulting in heightened user satisfaction.
- Integrated Redis caching mechanism into several microservices, significantly improving performance, and reducing response times by 15%.
- Optimized PostgreSQL database queries, achieving a 10% improvement in query performance and decreased database latency.
- Employed test-driven development (TDD) approach, ensuring code coverage and early issue detection. Implemented automated unit testing using Mocha and Chai, enabling rapid feedback on code quality.
- Demonstrated effective communication, collaboration, and problem solving skills through active engagement with project teams, colleagues, and clients.
- Engaged in agile practices, including daily stand-ups, sprint planning, retrospectives, and task management, leading to improved team collaboration, project efficiency, and timely delivery.

Web-Apps Development Intern

January 2021 - June 2021

SourceFuse Technologies India Private Limited, India

- Proficiently executed all stages of the Software Development Life Cycle (SDLC) for full-stack web applications, encompassing requirements analysis, design, coding, testing, deployment, and efficient issue resolution.
- Successfully completed comprehensive training in Angular and Loopback4 technologies, acquiring industry-leading practices that were swiftly implemented in live projects. This resulted in seamless integration and the development of robust, high-functioning applications.
- Actively collaborated with cross-functional teams, including designers, testers, and project managers, fostering effective communication, and streamlined coordination to drive successful project outcomes.
- Played a pivotal role in ensuring code quality and optimizing application performance through meticulous code reviews, delivering valuable feedback. This led to a significant 25% reduction in code issues and elevated team proficiency levels.

Projects

BuildYourPortfolio - Developer's Portfolio | [GitHub](#) | [Visit](#)

April 2023 - May 2023

Technologies: **React, HTML, CSS, JavaScript, GitHub Pages**

- Spearheaded the development of BuildYourPortfolio, an innovative extension to web portfolio project that empowered users through a streamlined form-filling experience. This extension generated a personalized JSON file, enabling instant setup of their professional portfolios.
- Implemented React Router to deliver seamless client-side routing, ensuring smooth navigation and a dynamic single-page feel. Employed lazy loading techniques for optimized loading times, resulting in a highly responsive user experience.
- Leveraged higher-order components (HOCs) to enhance code modularity and reusability, minimizing redundancy and fostering a clean and efficient codebase.
- Developed and deployed a visually captivating and intuitive UI with a strong emphasis on responsive design, delivering exceptional user experiences across a wide range of devices and screen sizes.

Twitter Analytics - Tweets Analytics Portal | [GitHub](#) | [Visit](#)

March 2023 - April 2023

Technologies: **React, Python, Django, MongoDB.**

- Led development of a Twitter Analytics Portal using React, Python, Django, and MongoDB and collaborated with a cross-functional team of three as lead front-end developer, ensuring timely delivery and exceptional user experiences.
- Implemented a visually stunning dashboard with real-time engagement metrics, sentiment analysis, topic categorization, and top-performing content identification.
- Leveraged Python and associated libraries for tweet scraping, data preprocessing, and accurate topic assignment, improving data accuracy and processing efficiency by 10%.
- Enhanced user data analysis capabilities by enabling targeted analysis based on twitter hashtags and profiles, optimizing social media strategies, providing clients with comprehensive insights into their social media presence.

ZeroWaste - Smart Garbage System | [GitHub](#) | [Visit](#)

October 2022 - December 2022

Technologies: **Angular, HTML, CSS, NodeJS, MongoDB.**

- Developed and enhanced a robust Angular-powered dashboard, demonstrating expertise in Angular best practices, user experience design, and responsive web development.
- Collaborated seamlessly with a cohesive team of eight developers, effectively meeting project timelines and delivering high-quality results.
- Leveraged powerful features to create secure login and signup pages with real-time validation, ensuring a seamless user experience and adherence to industry standards.

Technical Involvements

- Solved over 300 Leetcode questions in C++/Java, focusing on important topics such as dynamic programming, binary search, and recursion. Developed strong problem-solving skills and proficiency in algorithmic techniques.
- Actively participated in various hackathons during college festivals, collaborating with teams to create innovative solutions within limited timeframes. Demonstrated adaptability, creativity, and the ability to work under pressure.
- Completed courses specializing in object-oriented programming (OOP) and Design Patterns, applying these techniques to develop projects. Implemented industry-standard design patterns for code modularity and scalability.
- Co-authored and published a research paper on "CNN for Image Segmentation in Wireless Capsule Endoscopy" in a SCIE journal. Demonstrated expertise in image processing and machine learning techniques for bleeding detection, achieving outstanding results with 0.95 accuracy on the public dataset and 0.93 on the real video dataset. [Visit](#)