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**: 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.
- Implemented ngx-charts library to create visually appealing and interactive data visualizations, enabling clients to analyze data efficiently and make data-driven decisions.

Publication

"Co-Author", Deep learning based image classification | Visit   May 2020
SCIE journal publication
- Co-authored and contributed to a SCIE journal research paper on "CNN for Image Segmentation in Wireless Capsule Endoscopy," showcasing expertise in image processing and machine learning techniques for bleeding detection in endoscopy images.
- Developed and implemented a CNN-based ensemble architecture, incorporating synthetic data augmentation, color palette reduction, and feature analysis to improve accuracy and efficiency in detecting bleeding symptoms.
- Conducted extensive data analysis, including RGB pixel intensities, class distributions, and ratio evaluations, providing valuable insights into the complexity of the classification problem. Achieved outstanding results with an accuracy of 0.95 on the public dataset and 0.93 on the real video dataset, validating the effectiveness of the proposed approach.