SHOBHIT NARAYAN

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PROFILE

Highly motivated Software Engineer with a strong foundation in computer science and a passion for problem-solving. Known for my diligence, quick learning abilities, attention to detail, and a drive to tackle complex challenges. Adept at leveraging a wide range of technical skills and tools to deliver innovative solutions.

SKILLS

- **Computer Languages:** Python, JavaScript, Java, C, C++
- **Web Technologies:** React, HTML, CSS, Tailwind, NodeJS, Express, REST API, NextJS
- **Databases:** MongoDB, SQL
- **IDEs Operated:** Visual Studio Code, Pycharm, Eclipse, Jupyter Notebook
- **Version Control:** Git, GitHub
- **Other Relevant Technologies:** TensorFlow, Scrum, Agile, JIRA, GPT

EDUCATION

Master of Applied Computing September 2021 - December 2022
University of Windsor, Windsor, Ontario, CA CGPA – 86.6%
Key Courses: Advanced Software Engineering Principles, Advanced Database Topics, Advanced Systems Programming

Bachelor of Technology in Software Engineering May 2016 - May 2020
SRM Institute of Science and Technology, Chennai, India CGPA – 82.9%
Key Courses: Data Structures and Algorithms, Object-Oriented Programming

WORK EXPERIENCE

Software Engineer – Mitacs Accelerate September 2022 - Present
University of Windsor & Sinai Health, Health Commons Solutions Lab

- Developed complex MVC web application using MERN stack, increasing user engagement by 30%
- Leveraged NodeJS, React, and MongoDB to implement full-stack features, and deployed the application using Heroku.
- Led team of 6 by delegating tasks, communicating milestones and progress to clients through weekly reports
- Gathered user feedback, created design documents, and provided end-user training for enhanced user experience
- Tested custom REST APIs using POSTMAN for seamless integration, improving system reliability and scalability
- Streamlined debugging time by refactoring code with object-oriented design principles, reducing error rates
- Optimized React components, reducing load times by 70% and enhancing user experience
- Proficient in Git for version control, conducting code reviews and ensuring timely deliverables

IT, Logistics & Scheduling Operator October 2022 – Present
Assisted Living Southwestern Ontario

- Worked with web team to edit, design, and publish organization's website using WordPress
- Leveraged Microsoft Sharepoint and Power Automate to automate new hire and termination process
- Migrated systems to Microsoft 365 and provided training to senior management
- Operated Scheduling software AlayaCare to manage staff and client schedules, and perform data exploration
- Provided IT assistance to internal stakeholders, troubleshooting issues and swiftly resolving them to ensure minimal disruptions to operations

Student Intern June 2018 – July 2018

Cyient Ltd.

- Created a solution for a Transmit Receive Module using Java, Swing, and RxTx libraries
- Interacted with hardware and electronic teams to achieve a full duplex serial communication with an FPGA board
- Applied object-oriented design solutions such as abstraction and polymorphism to design the architecture of the application layers

PROJECTS

Music Factory: Text to Music Generator (NextJS, Tailwind, AI, Replicate) November 2023

- Developed the interface for a Text to Music Generator using NextJS and Tailwind
- Connected to Meta's MusicGen model hosted on Replicate
- Used WavesurferJS library for audio waveform display

Forever Dungeon: An Infinite Text Adventure (React, HTML, CSS, OpenAI) October 2023

- Designed the front-end using React, HTMl, and CSS
- Connected to the OpenAI API using the library Axios
- Used GPT-3.5 for story generation and DALLE-2 for image generation

GPT-2 Quote Generator (Python, Deep Learning, Tkinter) September 2020

- Trained the GPT-2 model (345M) on a dataset of 500K quotes from books and movies
- Created a user interface with Tkinter library in Python to interact with it

Brain Tumor Segmentation in MRI Images Using UNet Based 3D CNN May 2020

- Research paper published in Annals of the Romanian Society for Cell Biology
- Study on automatic detection of Glioblastoma tumors in MRI scans of the brain
- Used a 3D Convolutional Network with a U-Net Architecture