SHUBHANKAR VALIMBE

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Education

University at Buffalo, The State University of New York — May 2023
*Bachelor of Science in **Computer Science*** — *Buffalo, NY*

Technical Skills

Programming Languages: Python, JavaScript, TypeScript, HTML/CSS, Scala, Java, Solidity, C, C++
Developer Tools: VS Code, Intellij IDEA, Google Colab, Jupyter, Repl.it, Docker, GitHub, Figma
Libraries: React.js, Vue, jQuery, Redux, Scikit-Learn, Tensorflow, PyTorch, Keras, Web3, NumPy, Pandas, Matplotlib
Technologies/Frameworks: Ajax, Node.js, Express.js, Bootstrap, Flask, Django, Google Cloud (GCP), AWS, Azure, Heroku, MySQL, DynamoDB, MongoDB, RESTful API, GraphQL, Sass, Gatsby

Experience

The Research Foundation for SUNY — Feb 2023 – Present
Frontend / AI Engineer — *Buffalo, NY*
- Led a team to design a web application with **React**, **JavaScript** and **Flask**, implemented **MongoDB** database to store logs efficiently and leveraged **Google Cloud Platform** (GCP) for smooth deployment and scalability.
- Developed an **AI chatbot** using a pre-trained DialoGPT from **Hugging Face** and improved chatbot response accuracy by **40%** through continuous training and fine-tuning using **Transformers** and **PyTorch**.
- Integrated a voice recording system in JavaScript with Web Speech API, with a **98%** recording fidelity, resulting in high-quality audio data and applied the **Whisper model** from **OpenAI** for real-time speech-to-text transcription.
- Reduced transcription errors by **20%** through implementation of an advanced speech correction system and utilized **Microsoft Azure Speech** enhancing text-to-speech voice naturalness by **35%**.

Ace Financial Services — Dec 2022 – Feb 2023
Full Stack Developer — *Pune, India*
- Developed a website in a team of two, using **React** & **SASS**, and utilized **Express.js** to handle server-side operations.
- Leveraged **Amazon Web Services** for seamless hosting & decreased the launch timeline from 4 months to 2.5 months.
- Minimized website loading time by **40%** through optimization techniques, resulting in an improved user experience.
- Delivered high website traffic, resulting in a **27% increase** in target audience engagement within 6 months.

Projects

Sorting Visualizer 🔗 | *JavaScript, HTML, CSS* — June 2023
- Deployed a dynamic sorting visualizer in JS, HTML & CSS, enabling users to interactively visualize sorting algorithms.
- Generated significant social media buzz and positive user feedback, with **500+** mentions across various platforms.
- Hosted on Netlify, achieving a **99.9%** uptime and providing a seamless user experience for **10,000+** visitors.

Drug Origin Tracer (DOT) | *Solidity, JavaScript, HTML, CSS* — January 2023
- Launched an Ethereum-based DApp for chain of custody record tracing at each level of the medical drug supply chain.
- Designed smart contracts in Solidity, built the UI in React and interacted with the blockchain using web3 JS API.
- Accelerated functionality and smart contract execution, resulting in an average transaction time of less than **5 seconds**.
- Attained a scalability benchmark of processing over **1,000** transactions per minute with minimal latency.

Twitter Analytics Dashboard | *Python, JavaScript, HTML, CSS* — August 2022
- Created a Twitter dashboard with React, Python, Flask, and **Twitter API** to visualize key metrics and insights.
- Optimized performance, resulting in an average loading time of under **2 seconds**, leading to minimized bounce rates.
- Verified responsiveness across different devices, achieving a **95%** mobile-friendly score in Google's Mobile-Friendly Test.

Weather360 | *JavaScript, HTML, CSS* — February 2022
- Developed a weather forecast app using JS, React, and Sass, providing real-time weather data and forecasts to users.
- Integrated the OpenWeatherMap API to fetch weather information for different locations, enabling accurate forecasts.
- Optimized performance, achieving an average load time of **0.8 seconds**, leading to a **60%** reduction in bounce rates.

Leadership / Extracurricular

UB ACM [Association for Computing Machinery] — Fall 2021 – Spring 2023
Vice Chair — *University at Buffalo*
- Organized biweekly HackNights where members devised socially relevant projects for underprivileged people.
- Revamped and promoted the HackNights to new students and **boosted member participation by 25%**.
- Maintained a working relationship with the ACM parent branch and managed the Education and Audit Committee.