

Shreya Sadashiva Kamath

+1 (213) 341 7634 - shreyasa@usc.edu - linkedin.com/in/shreyakamath31 - github.com/shreyasa31

EDUCATION

University of Southern California

Master of Science in Computer Science

December 2024

Los Angeles, USA

N.M.A.M. Institute of Technology, Nitte

Bachelor of Engineering in Information Science

June 2022

Karnataka, India

TECHNICAL SKILLS

Programming Languages: Java, Python

Frameworks and Tools: React JS, Node JS, Next JS, REST API, Tailwind CSS, Kotlin, React-Native, Wireshark, Git, Burp Suite, Apeer, Android Studio, Postman

Database: MongoDB, MySQL, Firebase, PostgreSQL

Cloud: Amazon Web Service, Google Cloud Platform

ML Libraries: NumPy, Pandas, Keras, TensorFlow, Scikit-Learn, Matplotlib

WORK EXPERIENCE

Quality Assurance Intern

July 2024 - Dec 2024

AuraCycle

Remote, USA

- Spearheaded development of an application configured with Kivy for front-end, Flask for back-end, PostgreSQL, and SQLite for database, aimed at educating users about menstruation as part of a meaningful cause
- Conducted in-depth research on personalized AI and on-device privacy, focusing on enhancing user data protection and ensuring privacy in AI-driven features, while optimizing performance for personalized experiences
- Entrusted with ensuring data privacy and encryption for secure data storage and transmission. Includes encrypting sensitive user health data and securing APIs with strong password policies. Also addressing vulnerabilities such as SQL injection and XSS attacks, with work still ongoing

Full Stack Developer Intern

March 2021 - Aug 2021

Karunadu Technologies Pvt Ltd.

Bangalore, India

- Collaborated with team members to build an employee time tracker app leveraging the MERN stack, tracking check-ins, check-outs, task durations, and calculating pay based on working hours. Resulted in a 25% improvement in productivity tracking, streamlining how employee activity and attendance were managed
- Implemented effective authentication through JWT tokens and designed REST APIs for efficient backend interaction, enhancing data security and ensuring smooth employee data management across a system

PROJECTS

E-commerce Web Application with the Integration of eBay API

April 2024 - May 2024

- Leveraged the MERN stack to construct a feature-rich online shopping platform, integrating eBay API for seamless product searches for over 1000 unique products and wish list functionality. Deployed the solution on GCP for scalable performance, marking a 50% advancement in full-stack development skills
- Crafted an interface for displaying in-depth product information from eBay and later created the same into an Android application coded in Java

Chat Application with Homomorphic Encryption for Foul Language Detection

Jan 2024 - March 2024

- Designed and deployed a real-time chat application using React, Socket.io, and Node.js, enabling safe and seamless communication with foul language detection, ensuring a clean and user-friendly chat environment
- Integrated Homomorphic Encryption (HE) for privacy-preserving foul language detection, utilizing Flask and TenSEAL libraries to process and filter encrypted messages without revealing user's content
- Optimized cross-platform communication by establishing a RESTful API in Flask for real-time message encryption and foul language detection, reducing message processing latency by 30% while maintaining data privacy

Sentiment Analysis of Reviews employing MLP, CNN and LSTM RNN Models

Aug 2023 - Oct 2023

- Led a team of 5 and addressed need for accurate sentiment analysis in user reviews by developing and evaluating various deep learning models on a dataset of 2,000 reviews
- Attained 90% accuracy with the LSTM model, outperforming CNN (80%) and MLP (65%), highlighting LSTM's strength in capturing long-term dependencies in text data

ACCOMPLISHMENTS

- Earned first place with project 'Detection & Analysis of DOS and DDOS Attacks' at 'SUKALPA,' a state-level technical event, and presented a technical paper on that topic at IEEE PES Student Congress in 2021