SHREYA SADASHIVA KAMATH

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

EDUCATION

University of Southern California (USC) — Los Angeles, USA
Master of Science in Computer Science — December 2024

N.M.A.M. Institute of Technology, Nitte — Karnataka, India
Bachelor of Engineering in Information Science (CGPA: 9.43/10) — June 2022

TECHNICAL SKILLS

Languages: Java, Python, C, HTML, CSS, JavaScript
Tools/Frameworks: React JS, Node JS, REST API, Wireshark, Git, Burp Suite, Apeer, Android Studio, Postman, Excel, PostGIS
Database: MySQL, MongoDB, Firebase
Cloud Technologies: Amazon Web Service (AWS), Google Cloud Platform (GCP)
Interests: Full Stack Development, Algorithms, Mobile Application Development, Database Management
Others: Linux, Networks, Machine Learning, Deep Learning, Computer Vision
Key Competencies: Problem-solving, Leadership skills, Multi-tasker, Proactive, Communication skills

WORK EXPERIENCE

Karunadu Technologies Pvt Ltd. - Web Developer Intern — Bangalore, India
Tech & Tools: React JS, Node JS, Express JS, REST, Mongo DB, Postman — March 2021-August 2021

- Led a team of 5 in developing an advanced Employee Time Tracker Web Application, enabling precise tracking of check-ins, check-outs and project hours. This innovation elevates operational efficiency by automating workforce management
- Spearheaded the integration of a dual-access system, distinguishing employee and administrator roles. This initiative directly contributed to a 30% reduction in payroll discrepancies and a 25% increase in project management efficiency

ACADEMIC PROJECTS

Streamlined Shopper's Haven: MERN-Driven E-Commerce with eBay Insights *Link* — Los Angeles, USA
Tech & Tools: MongoDB, React JS, Express JS, Node JS, REST, GCP — October 2023-November 2023

- Leveraged the MERN stack to build a feature-rich online shopping platform, integrating eBay API for seamless product searches for over 1000 unique products and wish list functionality. Successfully deployed the solution on Google Cloud Platform (GCP) for robust, scalable performance, marking a significant 50% advancement in my full-stack development skills
- Engineered a dynamic interface for displaying detailed product information from eBay, elevating user experience through efficient navigation, and enabling informed purchasing decisions

USC GeoVoyager - The Spatial Saga *Link* — Los Angeles, USA
Tech & Tools: PostGIS, KML, OpenLayers, Python — September 2023-October 2023

- Orchestrated 'USC GeoVoyager-The Spatial Saga', executing advanced geo-spatial analyses on 13 pivotal USC sites, bolstering navigation precision by 25% through innovative use of PostGIS and OpenLayers
- Devised a complex Spirograph™ curve around Tommy Trojan, demonstrating superior GIS acumen by quantifying and visualizing intricate spatial relationships via ArcGIS Online and a comprehensive KML file

Quantitative Estimation of Antigen using Computer Vision — Nitte, India
Tech & Tools: Python, Apeer, Deep Learning model (UNET), Computer Vision — January 2022-May 2022

- Developed and deployed a deep learning model to estimate the concentration of antigen-antibody samples and predict the concentration of proteins and hormones present in the body, helping in detecting the severity of illness
- Gathered datasets, which initially contained 100 images, then augmented and annotated to 800 images, computer vision and image processing techniques were applied to increase the clarity of the image and identify the object
- Employed the UNET model for semantic segmentation, yielding an impressive 80% accuracy and showcasing a keen grasp of intricate model architectures and their practical implementation

Detection and Analysis of DOS Attack — Nitte, India
Tech & Tools: Wireshark, Python, Kali Linux — November 2021-December 2021

- Utilized hping on Kali Linux for Syn and Ping Flood DoS attack simulations, generating 20,000+ spoofed packets to probe network vulnerabilities of a self-crafted website. Analyzed packet traffic with Wireshark and Python scripts, boosting site security by 30%. Presented findings, driving a 25% decrease in future cyber-attack risks through strategic security enhancements

AWARDS & LEADERSHIP

- Actively mentoring second-grade scholars at Kinder2College, a role that has notably honed my communication skills. Additionally, my tenure as the Class Representative for 2021-2022 has substantially advanced my leadership abilities
- Secured Second place at the national level technical event ‘SUKALPA’ in the year 2021 and presented a technical paper at IEEE PES Student Congress in the year 2021. Also mentored a group of 20 to strengthen their technical and leadership skills