Shreya Sadashiva Kamath

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EDUCATION

University of Southern California   **December 2024**
Master of Science in Computer Science   *Los Angeles, USA*

N.M.A.M. Institute of Technology, Nitte   **June 2022**
Bachelor of Engineering in Information Science   *Karnataka, India*

TECHNICAL SKILLS

Programming Languages: Java, Python
Frameworks and Tools: React JS, Node JS, Next JS, REST API, Docker, Tailwind CSS, Kotlin, React-Native, Wireshark, Git, Burp Suite, Apeer, Android Studio, Postman, Linux
Database: MongoDB, MySQL, Firebase, PostgreSQL
Cloud: Amazon Web Service, Google Cloud Platform
ML Libraries: NumPy, Pandas, Keras, TensorFlow, Scikit-Learn, Matplotlib

WORK EXPERIENCE

Software Developer Intern   **July 2024 - Dec 2024**
AuraCycle   *Los Angeles, USA*

- Spearheaded development of an application configured with react js for front-end, node js for backend, PostgreSQL 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 safe data storage and transmission. Includes encrypting sensitive user health data and enforcing strong password policies. Also addressing vulnerabilities such as SQL injection and XSS attacks

Software 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

Crypto Dashboard: Real-Time Cryptocurrency Insights & Analytics   **Sept 2024 - Nov 2024**

- Engineered a microservice-based cryptocurrency dashboard, implementing a Java-based Scraper service, a Node.js-powered Growth service, and MongoDB-backed API service, processing over one thousand requests per second
- Developed a comprehensive Scraping service framework utilizing both Google News API and Reddit, extracting sentiment data for 10 leading cryptocurrencies and processing 500 articles daily for market analysis
- Built a responsive frontend with React.js, incorporating real-time analytics from Polygon API, and containerized all services in Docker containers for faster deployment and cross-platform compatibility

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 a 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 transformed into an Android application coded in Java

Sentiment Analysis of Reviews employing MLP, CNN and LSTM RNN Models   **Jan 2024 - March 2024**

- Led a team of 4 and addressed the 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 same topic at IEEE PES Student Congress in 2021