

Shreya Sadashiva Kamath

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EDUCATION

University of Southern California

Master of Science in Computer Science

Los Angeles, USA

December 2024

N.M.A.M.Institute of Technology

Bachelor of Engineering in Information Science

Karnataka, India

June 2022

TECHNICAL SKILLS

Programming Languages: Java, Python

Full-Stack & Mobile Technologies: React.js, Node.js, Express.js, REST API, Tailwind CSS, TypeScript, GraphQL, Next.js, Spring Boot, Kotlin, React Native, Android Studio, Flask, Material UI, Bootstrap

Databases: MongoDB, MySQL, Firebase, Postgres

Cloud & DevOps: AWS (EC2, S3, Lambda), GCP (Compute Engine, Cloud Storage, Cloud Functions), Docker, Git, Kubernetes, Linux, Azure, Postman

ML Libraries: NumPy, Pandas, Keras, TensorFlow, Scikit-Learn, Matplotlib, OpenAI API, Hugging Face

WORK EXPERIENCE

Research Assistant

Los Angeles, USA

USC Viterbi School of Engineering

February 2025 - Present

- Developing an AI-powered Job Matching Platform using TypeScript, GraphQL, AWS (Amplify, Cognito, EC2), and ML algorithms, integrating LLM-based recommendations, following Agile methodologies; optimised API response payloads by 30% & accelerated frontend performance by 25% through efficient data handling and PWA design
- Architected a modular microservices system utilizing Node.js, Flask for ML services, DynamoDB, & OpenAI APIs; enhanced skill-to-job matching accuracy by 40% through the implementation of cosine similarity models

Software Developer Intern

Los Angeles, USA

AuraCycle

August 2024 - January 2025

- Developed & secured backend services for a menstrual health tracking application using REST APIs, Node.js, JWT authentication and PostgreSQL. Reduced unauthorised access incidents by 45%
- Designed a scalable Postgres database schema and optimized backend data flow, improving server response time by 30%. Strengthened system reliability and ensured seamless support for user cycle tracking operations

Software Developer

Bengaluru, India

Karunadu Technologies Pvt Ltd.

March 2022 - April 2023

- Engineered a full-stack employee time tracking and attendance application using the MERN stack. Automated the payroll calculations based on work hours, boosting platform adoption by 35% across the organization
- Implemented CI/CD pipelines and deployed services using Kubernetes, reducing deployment time by 50%. Truly improved system scalability and reliability during high user traffic by leveraging containerized infrastructure

PROJECTS

Crypto Dashboard: Real-Time Cryptocurrency Insights & Analytics

Sept 2024 – Nov 2024

- Built a Crypto Dashboard using a robust microservices architecture with a Node.js Growth Service, a Java Scraper Service for crypto mentions, a Node.js API Service with MongoDB, and a React.js frontend for real-time tracking
- Automated data collection every 24 hours by scraping Google News and Reddit, and containerized services using Docker for scalable deployment, improving speed by 50%

E-commerce Web & Mobile Application with eBay API Integration

Mar 2024 – May 2024

- Crafted an e-commerce app using MERN stack with dynamic product search and wishlist features using eBay API
- Deployed on GCP for cloud hosting and built its Android version using Kotlin to extend platform accessibility

Sentiment Analysis of Reviews using MLP, CNN, and LSTM Models

Jan 2024 – Feb 2024

- Built a model on product reviews using TensorFlow, testing MLP, CNN, RNN, and LSTM architectures to compare performance across 10,000+ samples
- Boosted sentiment classification accuracy by 15% over baseline models, achieving 60% accuracy with LSTM

LEADERSHIP & EXTRACURRICULAR

- Earned first place with project 'Detection & Analysis of DOS Attacks' at 'SUKALPA', a state-level technical event, & presented a technical paper on the same topic at IEEE PES Student Congress in 2021
- Managed and tutored 20+ students at USC in engineering topics, improving their technical skills & understanding