

Kevin Sherla

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EDUCATION

University of Southern California

Master of Science in Computer Science - GPA-3.5

May 2023 – Present

Los Angeles, CA

Vidyalankar Institute of Technology (VIT)

Bachelor of Engineering in Computer Engineering - CGPA-9.04/10

August 2018 – May 2022

Mumbai, India

EXPERIENCE

Reliance Jio Infocomm Limited

July 2022 – April 2023

Graduate Engineer Trainee - Service Validation

Navi Mumbai, India

- Identified and documented 200+ software bugs during JioMeet MacOS UAT, leveraging Microsoft Azure for efficient bug tracking and contributing to improved software integrity and user satisfaction
- Performed usability testing along with functional, regression, interoperability, and monkey testing
- Collaborated with developers and product owners, participating in discussions and offering valuable insights to enhance product features, functionality, and overall user experience
- Reported a critical bug in the JioMeet application, leading to discovery of a vulnerability that could remotely crash JioMeet or operating system through DDOS attacks

Graduate Engineer Trainee - Integration and Orchestration

- Demonstrated proficiency in Azure DevOps for automating CI/CD for Microservices across diverse environment
- Integration of Kubernetes and Docker with Azure for efficient Containerization and Continuous Delivery operations
- Implementing Agile Methodology for streamlined project planning and source code management, leveraging Gitlab and Azure Boards

ACADEMIC PROJECTS AND PAPERS

iOS App Development for Online Marketplace | Swift, SwiftUI, Xcode, eBay API, MongoDB

- Developed an iOS app facilitating product searches using eBay API. Features: product listing, detailed views, and wishlist management
- Implemented leveraging Swift and SwiftUI for frontend development, with backend services in Node.js, and data storage using MongoDB

eCommerce Web Interface Design | Angular, Ajax, Bootstrap, MongoDB, Node.js, eBay API

- Developed a responsive web application for product searches using eBay API. Implemented features such as a search form, results table, item info card, and integration with MongoDB for a wish list.
- Deployed application on Google Cloud Platform (GCP) and leveraged Bootstrap for responsive design, improving user experience

Multimedia Video/Audio Indexing System | Machine Learning, Audio Processing

- Integrated frame value hashing and CNN-based video shot detection for precise content location
- Employed MFCC feature extraction for enhanced audio analysis, improving search accuracy in multimedia content

Mobility Assistance for Visually Impaired using LiDAR | LiDAR (iPhone) and CNN

- Engineered a Swift-based LiDAR mobility aid for visually impaired users, combining real-time 3D environment generation and distance-sensitive haptic feedback; presented at IEEE conference (Dec 2021) and published in IEEE Xplore (Mar 2022).

Automated Institute Attendance System using Computer Vision | OpenCV, Flutter, and Firebase

- Built an automated assistance system in response to COVID-19 to monitor student's body temperatures as they enter institutions wearing masks

ML Model Comparison for COPD Readmissions | XGBoost, Gradient Boosting, Logistic Regression, SMOTE

- Evaluated various ML models for predicting COPD patients' 30-day hospital readmissions, and authored a paper on findings in the International Journal of Engineering Research and Technology (IJERT) - Volume 10, Issue 11 (November 2021)

TECHNICAL SKILLS

Languages: Python, Swift, JavaScript, HTML/CSS, SQL, Java, C

Frameworks/Libraries: SwiftUI, Node.js, Flask, TensorFlow, OpenCV, Alamofire, Kingfisher, PromiseKit, SwiftyJSON

Developer Tools: Xcode, Microsoft Azure, Docker, Kubernetes, Jenkins, Git, AWS, Postman

Technologies: iOS App Development, Web Technologies, Machine Learning, Cloud Computing, Audio/Video Processing

EXTRACURRICULAR ACTIVITIES

- Worked with the USC Hospitality AV team, assisting in audiovisual equipment setups for seamless event operations
- Through my role as in-game leader (IGL), achieved victories with Valorant and CS:GO teams since 2018, promoting teamwork and competing at the apex of India's national scene
- Core Member at Rotaract Club of Shivaaji Park, organized MUNA for school children, volunteered in park street cleaning, and raised social awareness on various issues via social media from 2019-2020