

GAURAV KHATWANI

📍 Los Angeles, CA 📞 +91 7888036968 ✉ khatwani@usc.edu 🔗 LinkedIn 🌐 Portfolio

EDUCATION

University of Southern California

Master of Science in Computer Science

K. J. Somaiya College of Engineering

Bachelor of Technology in Computer Engineering

Aug 2024 - May 2026

Los Angeles, CA

Aug 2018 - Jun 2022

Mumbai, India

TECHNICAL SKILLS

Languages and Frameworks: C/C++/C#, Java, Python, HTML, XML, CSS, Dart, Bootstrap, JavaScript, TypeScript, .Net, Spring Boot, Angular, NodeJS, React, Flask, Django, Flutter

Cloud and Databases: Amazon Web Services (AWS), Microsoft Azure, SQL, MySQL, PostgreSQL, MongoDB, Firestore

Automation and Version Control: CI/CD, Git, GitHub

Tools and Technologies: Selenium, Automation Testing, DevOps, Cloud Computing, Data Structures and Algorithms, Operating Systems, Object Oriented Programming, Scrum, Agile, Software Development Lifecycle(SDLC), PowerBI, Docker, Kubernetes, Linux, TCP/IP, Natural Language Processing(NLP), Machine Learning(ML), Deep Learning

EXPERIENCE

Microsoft Corporation

Aug 2022 – Present

Tech Consultant

Hyderabad, India

- Collaborated with a 60-member team in a project for the state government to develop high-performance, fault-tolerant code, resulting in a **99.95% uptime** achievement.
- Participated in refactoring majority of a project's codebase within 2 weeks, increasing the code quality rating by over 90% and ensuring code reusability.
- Engineered 20+ end-to-end APIs single-handedly using **.NET Core, Azure App Services** and **Azure SQL**, incorporating best practices to ensure flexible and scalable code.
- Spearheaded regression testing of 30+ APIs, automating 200+ test cases, resulting in a **95% reduction** of manual work.
- Improved the automation framework for API testing, allowing the framework to run an average of 10 test cases at once as opposed to only a single test case at a time.
- Chosen as the Development Lead for a batch of interns at Microsoft, guiding them to build a 'Warehouse Management System'.

Microsoft Corporation

Jun 2021 – Jul 2021

Tech Consultant Intern

Hyderabad, India

- Created a web application using **VueJS** and **ASP.NET Core**, incorporating REST APIs, Power BI, SQL, Azure Data Factory, Azure Blob Storage and B2C Authentication while adhering to Agile Software Development principles. This application significantly enhances managerial efficiency, reducing time spent by 70%.

ARCON TechSolutions

May 2020 – Jul 2020

Software Developer Intern

Mumbai, India

- Developed new automation scripts for the company's application in Java using the Selenium framework.
- Increased performance by 50% in the existing scripts by optimizing them using data structures.

PROJECTS

ECG Paper Record Digitization and Diagnosis | *Python, Flask, Image Processing, Deep Learning*

- Automated the diagnosis of ECG paper records, leveraging computer vision and deep learning techniques. Devised custom algorithms to extract ECG signals from background, enhancing model accuracy from 82% to 94.4%.

VisuallyPaired | *Flutter, Firebase, Python, Deep Learning, Natural Language Processing*

- Developed a mobile application to aid visually impaired individuals in calling, texting, calculating numbers, identifying Indian currency notes, and handling Twitter accounts. Achieved a 92% accuracy in currency identification through training a MobileNet-based deep learning model.

QTalk | *Flutter, Firebase, Machine Learning*

- Created a social chat application that allows signed-in users to chat by sending texts, GIFs, photos, and videos.

ACHIEVEMENTS

Publications: ECG Paper Record Digitization and Diagnosis Using Deep Learning

Awards: Innovation Catalyst Award, Customer Champion Award

Certifications: Azure Fundamentals, Azure AI Fundamentals