

Shubhangi Saileja Rabichandra Garnaik

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WORK EXPERIENCE

SUNY, Korea

Incheon, Korea

Research Assistantship — Computer Science

Jun 2022 - Dec 2023

- Researched and analyzed the potential for machine learning and deep learning applications in the finance, warehouse and museum industry.
- Developed innovative vision algorithms for image recognition, resulting in a 84% improvement in accuracy compared to existing methods.
- Published comprehensive research reports on machine learning applications.

SUNY, Korea

Incheon, Korea

Teaching Assistantship — Computer Science

Jun 2022 - Dec 2023

- Assessed and evaluated student assignments using rubrics, providing constructive feedback to improve academic performance and increase average assignment scores by 15%.
- Facilitated weekly discussions with students to address questions and promote critical thinking, resulting in a 25% increase in active participation and engagement in coursework.
- Collaborated with professors to develop supplemental materials, including study guides and practice exams, that improved student comprehension and exam scores by an average of 20%.

Zensoft/Qualitia, India

Pune, India

Junior Software Test Engineer - Associate Technical Sales Engineer

Jun 2019 - Sep 2021

- Developed and executed automated testing strategies for client software, resulting in an 85% decrease in testing time compared to traditional manual methods.
- Implemented a comprehensive test suite that successfully covered diverse applications, ensuring a high level of software quality across the board.
- Collaborated with cross-functional teams to identify and resolve software defects, resulting in a 50% increase in overall customer satisfaction ratings.

EDUCATION

Stony Brook University, Korea

Incheon, Korea

Master of Science in Computer Science

Graduation Date: Dec 2023

MKSSS's Cummins College of Engineering, Pune

Pune, India

Bachelor of Engineering in Computer Engineering

Graduation Date: Jun 2019

PROJECT EXPERIENCE

QR Code Rotation for Secure Payment System

Incheon, Korea

Python, OpenCV

Feb 2022 - Jun 2023

- Developed a secure QR code payment system to enhance security in QR code-based transactions.
- Utilized OpenCV functions for image processing and retrieving QR code randomized rotation angles.

Automated Counting System

Incheon, Korea

Python, OpenCV, Deep Learning

Jun 2022 - Jun 2023

- Developed a Deep Neural Network (DNN)-based quantity counter tailored for smart factories.
- Achieved an 84.33% accuracy rate in lab tests simulating a small factory.

Museum Application using Unity

Incheon, Korea

Unity 3D, GAN/VAE models

Mar 2023 - Present

- Developed a Unity Augmented Reality (AR) mobile application for an immersive experience in museums.
- Utilized Deep Learning GAN/VAE models for lifelike facial representations of art portraits.

LEADERSHIP EXPERIENCE

Organized Inter-College Coding Competition

Pune, India

Pune, India

Feb 2018 - Mar 2018

- Inter-school coding competitions to encourage analytical thinking

Orientation Leader

Incheon, Korea

SUNY Korea

Aug 2022 - Feb 2023

- Facilitated smooth transitions for incoming freshmen into campus life.

SKILLS

Languages: Python, Java, HTML/CSS, SQL Developer Tools: VS Code, Eclipse, Google Collab, Jupyter Notebook, Unity, Android Studio Technologies/Frameworks: Linux, Jenkins, GitHub, OpenCV, TensorFlow, FAISS, ElasticSearch