

# Swarali Kestikar

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## Education

### Virginia Tech

Masters in Computer Science

August 2024 - May 2026

Virginia, USA

### MKSSS's Cummins College of Engineering for Women

Bachelor of Technology in Computer Engineering

August 2018 - July 2021

Pune, India

## Technical Skills and Certifications

**Languages:** Java, Python, HTML, CSS, Javascript

**Databases:** MySQL, Oracle Database, MongoDB

**Tools and Technologies:** Tableau, Eclipse, Android Studio, AWS, Visual Studio, Visual Studio Code, Ansible Tower, JIRA, GIT, GITHUB, ASP.NET, Node.js, Express.js, Tomcat, Android SDK

**Certifications:** Microsoft Certified: Software Development Fundamentals, Microsoft Certified: Introduction to Programming using Java, Programming in Java with Data Structure.

## Work Experience

### Bank of America

Officer, Software Engineer

June 2021 - August 2024

Mumbai, India

- Utilized Python, Quartz, and Oracle Database to tackle complex operational challenges and surpass user requirements, enhancing performance and efficiency.
- Built and optimized project features independently to meet superior functionality and performance standards.
- Improved project stability through rigorous performance and regression testing in lower environments, reducing downtime by 30% during production releases.
- Supported vital support for production batches, resulting in a 35% increase in overall productivity while ensuring operational efficiency.
- Managed a process re-engineering project to improve and consolidate end-to-end service processes; restructured communication flow among 7 upstreams and cut down paperwork by 65%.
- Demonstrated leadership by reduction in downtime by 30% during critical server migrations, ensuring operational continuity.
- Automated key operational tasks, reducing manual work by 40% and greatly improving process efficiency.
- Streamlined internal documentation processes, cutting onboarding time for new team members by 25%, and improving knowledge transfer across the team.

## Academic Projects

### Image Steganography using LSB Algorithm | Android Studio, Java Development Kit, Java Programming

- Developed an Android application with advanced encryption and decryption functionalities for images and text using the robust Least Significant Bit (LSB) Algorithm.
- Designed and implemented a secure Registration and Login system, ensuring 100% uptime and seamless user authentication, improving system accessibility.
- Applied innovative encryption techniques, employing images as cryptographic containers for text data, resulting in 90% user satisfaction.
- Leveraged image-based encryption to securely store and retrieve sensitive information, providing users with a unique and intuitive method for data protection, leading to an 80% increase in data security.

### Video Conferencing Web Application | WebRTC, Node.js, Angular, Socket.io, Express.js, HTML, CSS and JavaScript

- Created and launched a user-friendly video conferencing web application with features such as audio/video control, collaborative whiteboard, screen sharing, and automated attendance system.
- Validated and deployed the web application through real-world deployment, confirming its seamless functionality and robustness with 95% user satisfaction and a 90% increase in productivity.

## Seminar

### Study of Firebase

- Delivered an in-depth seminar on Firebase, detailing its robust database capabilities, applications, key features, practical database creation methods, and strategies for maximizing its effectiveness in diverse scenarios.

## Awards & Honors

**Gold and Silver Awards:** Received dual Global Recognition Awards for demonstrated commitment, unwavering dedication, and quality assurance efforts, contributing significantly to the success of the project.