

# NIKSHITA SARANGI

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## PROFESSIONAL EXPERIENCE

### Software Engineer | Operative Media Pvt. Ltd., Pune, India (May 2022 - Present)

- Developed web applications for AOS, a microservices-based cloud-native product supporting cross-media sales and digital convergence.
- Designed and delivered the Planner module using REST APIs (Spring Boot, Java, MongoDB backend; Angular frontend), collaborating with cross-functional teams.
- Authored features and test cases with Junit and Mockito for linear and digital advertisement solutions in AOS. Implemented Selenium API and Playwright for UI automation tests.
- Managed project workflows, issues, and releases using Jira. Used Git for version control and pull request integration.
- Optimized database queries, significantly enhancing application performance.
- Implemented microservices and event-driven architectures, leveraging Kafka and monitoring with Kibana.

## EDUCATION

Bachelor of Engineering in Computer Science, Birla Institute of Technology and Science (BITS), Pilani (2017 - 2021) : 8.25/10 CGPA

## INTERNSHIPS

### Research Intern | Carnegie Mellon University, Pittsburgh, USA (Jan 2021 – Jan 2022)

- Worked on 'Multi-Sensor Aircraft Detection, Track Association, and Fusion' undergraduate research thesis.
- Developed and field-tested perception algorithms using Python, Kalman Filter and OpenCV to fuse radar and camera data.

### Summer Intern | Defence Research and Development Organization, Bengaluru, India (Jun 2019 - Aug 2019)

- Implemented networking technologies for defense R&D projects at DRDO internship
- Gained experience with IV&V testing, SDLC, coding standards for critical systems

### Summer Intern | Eaton Corporation, Pune (Jun 2018 - Aug 2018)

- Worked on a Java-based project for automatic selection of Vibra-mounts for hydraulic system.
- Participated in code reviews and learned best coding practices
- Utilized Git for version control and Jira for task tracking

## PUBLICATION

- Passenger Security Using Facial Emotion Recognition System Using ML, International Journal, AcceptanceID: ICMSCC/Dec-2023/G9069

## KEY PROJECTS

- Real-time Mask Recognition and Detection (Python)
- English to French Translator (Python)
- Detecting COVID-19 on Chest X-Ray (Python)
- Sentiment Analysis on Movie Reviews (Python)
- Application of Deep Learning for Robotics Autonomous Navigation (Python)
- Sudoku Game (Java, Java FX)
- Implementation of Multiplication Algorithms on FPGA (Verilog HDL)
- Facial Expression Detection (Python)
- Foodping App – food delivery application (Java, HTML, CSS, Javascript)

## TECHNICAL SKILLS

Languages: Java/J2EE, Python, C, HTML, CSS, Javascript/Typescript

Web Technologies: Spring Boot, Angular

Databases: MongoDB, SQL | Tools: Git, Kibana, Kafka, AWS

Libraries: OpenCV, Caffe, ROS, PyTorch, Keras, TensorFlow

Project Management: Jira, Agile, Scrum

## POSITIONS HELD:

- Founding member, Kalinga Kala Kendra Trust (Non-profit for Indian Art and Culture preservation)
- Clubs: Flummoxed Quiz Club, IORTA Drones Club, Microsoft Tech Club, BITS Editorial Board, Wall Street Club
- Volunteering: AIESEC, Emirates Airline Festival of Literature

## EXTRA CURRICULAR ACTIVITIES

- Pitched at Draper Start-Up event for Kalinga Kala Kendra Trust (2023)
- Organized various cultural programs on dying art forms and traditions of India
- Finalist, TATA Crucible Campus Quiz (2021) | A1 Certification in German (2017)
- Organized classical dance/music festivals in India and Dubai for Kalinga Kala Kendra Trust
- Participated in Tartan Hacks (CMU), Cricket And Basketball tournaments (BITS), and various volunteering initiatives

## CERTIFICATIONS

- Neural Networks and Deep Learning (Coursera) - 97.8%
- Python Data Structures and Algorithms (Coursera) - 100%
- Programming with Everybody (Python) (Coursera) – 99.17%