

# RakshilKumar Modi

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## Education

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### Arizona State University

Masters in Computer Software Engineering **GPA: 4.22/4.00**

Tempe, USA

Dec 2025

### Indian Institute of Information Technology Vadodara

Bachelors of Technology Computer Science and Engineering **GPA:8.83/10.00**

Gandhinagar, India

May 2023

## Technical Skills

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**Languages:** Java, Python, C/C++, embedded C, JavaScript, Html/ CSS, R, SQL, Prolog, Matlab, Bash, LaTeX.

**Frameworks:** Linux, Tensorflow, ReactJs, ReactNative, Spring, SpringBoot, Flask, JUnit, Material-UI.

**Developer Tools:** VS Code, Eclipse IDE, Jupyter Notebook, Amazon AWS, IntelliJ, Git, Visual Studio, MySQL, PoweBi.

**Libraries:** pandas, NumPy, Matplotlib, Pytorch, OpenCV.

**Certificates:** Microsoft AI classroom, Fundamental of Deep Learning, Training on Artificial Intelligence and IOT, AWS Certified Developer Associate Udemy.

## Experience

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### Associate Software Engineer

07/23 – 01/24

Broadridge Financial Solution

Bengaluru, India

- Integral member of the US-based development team, working closely and collaboratively with 5 team members across different time zones. Led the development of full-stack applications using Java Spring Boot and React.js, leveraging their respective frameworks and libraries to deliver robust and user-friendly solutions with 95% accurate and 0 bugs.
- Integrated Power BI for advanced visualization and led the development of a client-tailored AI tool, similar to ChatGPT. to provided personalized insights, reports increasing productivity by 60%.
- Applied advanced web scraping techniques to collect and analyze data from online sources, enhancing application functionality by converting manual to automated and providing valuable insights with help to increase efficiency by 50%.

### Software Engineer Intern

01/23 – 06/23

Broadridge Financial Solution

Bengaluru, India

- Managed CheckMarx Tool and worked closely with the development to enhance code quality, and resolved 50+ Checkmarx issues making sure each code's quality is above benchmark.
- Created an API for scheduling emails and extracting Jira stories and sprint data, boosting efficiency by 80%.
- Orchestrated successful transition to full-time role collaborating remotely with US organization, working with Broadridge USA's development team; effectively contributed as an associate software engineer.

### IOT Hardware and Firmware Engineer

05/22 – 08/22

NatureX Technologies, 4Climate (Startup)

Ahmedabad, India

- Implemented a power monitoring system within the hydroponics setup by building a 60% efficient current sensor, ensuring efficient energy usage and contributing to sustainable practices in hydroponics cultivation.
- Engineered specialized sensors to precisely measure and regulate the delivery of light with 80% accuracy and moisture, optimizing the conditions for plant growth, fostering an intelligent automated hydroponics environment.

## Projects

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### Blind Assistance System | RaspberryPi, Python, GPS, OpenCv.

08/21 – 11/21

- Earned praise for a standout project presentation, got recommendation for the Intra-IIITV hackathon.
- Empowered the visually impaired with instant person recognition through integrated speech and face detection, achieving a recognition accuracy rate of 90%.
- Elevated autonomy for the visually impaired outdoors by integrating GPS tracking, object detection, and water detection, resulting in a 30% increase in self-dependence.

### Hospital Management System | Java, MySQL, Swing.

02/21 – 05/21

- Devised a comprehensive logging system for a hospital management project, tracking visitor and admitted patients, doctors, rooms, medicines, and hospital bills.
- Optimized operations, achieving a 50% reduction in appointment processing time through centralized log management, ensuring swift access for informed decision-making in seamless patient record administration.