

SAYANA JOY

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SUMMARY

Master's student with 5 years of web development experience, delivering scalable solutions in collaboration with cross-functional teams across diverse organizational settings.

EDUCATION

University of Houston, TX

Master of Science, Computer Science

Expected May 2026

GPA: 3.55

APJ Abdul Kalam Technological University, India

Bachelor of Technology, Computer Science

July 2019

KEY SKILLS

- **Technologies** - JavaScript, React.js, Redux, TypeScript, Python, SQL, Jest, HTML, CSS/SCSS, AWS
- **Tools** - Git, Visual Studio Code, Eclipse, Postman, Jira, PostgreSQL, Microsoft Office (Excel)
- **Accessibility** - JAWS, NVDA, WCAG 2.1, axe DevTools

PROJECT EXPERIENCE

Gender Classification from Text, University of Houston, TX

May 2025

- Built an ML pipeline using scikit-learn, pandas, NLTK, textstat and transformers with BERT embeddings, readability scores, and K-Means clustering for gender classification.
- Achieved 74.3% accuracy using an ensemble of SVM, Logistic Regression, Random Forest (based & tuned), and XGBoost models.

Serverless Web Application, University of Houston, TX

November 2024

- Developed a responsive, user-friendly frontend using React.js, SCSS, and led full frontend development and API integration in a team of three.
- Integrated AWS Cognito for secure authentication and deployed on AWS Amplify, reducing setup time by ~40%.

PROFESSIONAL EXPERIENCE

Teaching Assistant, University of Houston, TX

August 2025 - Current

- Mentored and guided 40+ undergraduate students in applying project management principles and teamwork strategies to real-world software projects.
- Collaborated with the course instructor to refine evaluation rubrics and conduct weekly virtual review sessions, ensuring fairness, effective communication, and consistent project assessments.

Systems Engineer, Tata Consultancy Services, Kerala, India

November 2022 – July 2024

- Led a frontend team of 3 to develop a responsive web application using React.js, SCSS, and Jest, improving code quality, performance, and user experience.
- Implemented and tested accessibility (a11y) features using JAWS and NVDA to ensure WCAG 2.1 compliance and improve screen reader navigation.
- Resolved 20+ live production issues, reducing turnaround time for critical bugs by 40%.

Senior Software Engineer, Vanilla Networks Pvt. Ltd, Kerala, India

December 2020 – November 2022

- Led the frontend team, delivering React-based web applications with React Context, TypeScript, Emotion CSS, and libraries like D3, AG Grid, seamless RESTful API integration.
- Collaborated in an Agile environment across 10+ release cycles, contributing to bi-weekly sprints and maintaining a 100% on-time, client-focused delivery record.

Software Engineer, Attinad Software, Kerala, India

December 2019 – November 2020

- Developed UI using React.js, SCSS, Bootstrap and used libraries like Redux, Stripe.js for payment processing.
- Created graphical data representations with Apex Charts.
- Presented weekly updates and conducted over 8 client demos, improving feedback cycles and alignment.