

# 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, Python, Redux, SQL, HTML/CSS, AWS

**Tools** - Git, Visual Studio Code, Eclipse, Postman, Jira, Microsoft Office, Excel

**ML Libraries** - scikit-learn, xgboost, textstat, nltk, pandas, transformers

**Working knowledge of** TypeScript, Jest, PostgreSQL

## PROJECT EXPERIENCE

**Gender Classification from Text**, University of Houston, TX

May 2025

- Built an ML pipeline using 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 and SCSS; 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

**Systems Engineer**, Tata Consultancy Services, Kerala, India

November 2022 – July 2024

- Developed a web application using React.js, SCSS and unit testing with Jest.
- Led the front-end development team of 3, improving code quality, user experience and performance.
- 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, contributing to bi-weekly sprints and ensuring timely, client-focused deliveries.
- Participated in over 10 release cycles, consistently maintaining a 100% on-time delivery record.
- Improved app responsiveness through reusable components and reduced load times.

**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.

## CERTIFICATIONS

- JavaScript: The Advanced Concepts – Udemy
- D3.js Data Visualization Fundamentals – Udemy
- Node.js, Express, MongoDB & More: The Complete Bootcamp - Udemy